J-Box LED Downlight

CPS Series | Retrofit & New Construction



J-box LED commercial downlights are available in 4", 6", 8" and 10" with up to 60w. The innovative separable design of junction box and trim makes it more flexible. Easy-fit installation comes from the adjustable butterfly clips. The downlight is built with an integral junction box that eliminates the need for a traditional recessed housing and mounts directly into ceiling in the new construction which is easy to install. The fixture simply gets wired to a wall switch and placed into the ceiling - no can, bulb or extra labor required! It is designed and engineered for recessed applications, which is suitable for commercial and public places and elegantly decorates the ambience, such as shopping mall, hospital, airport, hotel lobby etc.



Maximum 20W
80+CRI



Maximum 40W
80+CRI

Feature

- UL, CUL , Energy Star and Damp Rated
- 60W maximum with 4", 6", 8" and 10" trim size options
- Available in round, square, round wall wash and square wall wash trims
- Twist-lock modular design
- Integrated J-box for direct wire, eliminated recessed can
- CCT adjustable and wattage selectable
- New construction frame kit available



Maximum 60W
80+CRI

PERFORMANCE

Item	Lumen Output			Type
	High	Medium	Low	
Maximum 20W	20W,1500LM (75LM/W)	15W,1170LM (78LM/W)	10W,800LM (80LM/W)	IC
Maximum 40W	40W,3200LM (80LM/W)	34W,2890LM (85LM/W)	27W,2430LM (90LM/W)	NON-IC
Maximum 60W	60W,6180LM (103LM/W)	50W,5300LM (106LM/W)	40W,4360LM (109LM/W)	NON-IC

Remark: Maximum 20W with 4", 6", 8" trims and maximum 40w with 4", 6", 8",10" trims are listed on Energy Star. All efficacy are subject to 4000K which has ±5% base on different CCT and Trims. Check the IES file to gain the accurate data .

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PRODUCT ORDERING GUIDE

Example: CP6-D20W-35W

CP		-	D	
Product Series	Cutout Size		0-10V Dim	Wattage & CCT
CP J-Box LED Downlight	**4** QuickShip 4 Inch **6** QuickShip 6 Inch **8** QuickShip 8 Inch (Only for round trim) **10** QuickShip 10 Inch (Only for round trim)		**D** QuickShip Maximum 20W and 40W Version: 120-347V AC, dims to 10% Maximum 60W Version: 120-277V AC, dims to 1% *Tested Dimmers: Lutron® Diva-Dvtv, Leviton® IP-710-DL.*	**20W-35W** QuickShip Wattage Selectable (20W, 15W, 10W) CCT Adjustable (3000K,3500K,4000K) **20W-50E** QuickShip Wattage Selectable (20W,15W,10W) CCT Adjustable (3000K,4000K,5000K) **40W-35T** QuickShip Wattage Selectable (40W, 34W, 27W) CCT Adjustable (3000K,3500K,4000K) **60W-35T** QuickShip Wattage Selectable (60W, 50W, 40W) CCT Adjustable (3000K,3500K,4000K) (Only for 6"/8"/10" round trim and 6" square trim Can't compatible with all size wall wash trim and 4inch round/square trim.)

OPTIONAL ACCESSORY

Trim Shape & Color

RWR QuickShip
Round White Ring+Haze Reflector
4", 6", 8" 10" Trims Available



RBR QuickShip
Round Black Trim
4", 6", 8"Trims Available



RHR QuickShip
Round Haze Trim
4", 6", 8" Trims Available



RRR QuickShip
Round Rosé Trim
4", 6" Trims Available



SWR QuickShip
Square White Ring+Haze Reflector
4", 6" Trims Available



RWW QuickShip
Round Wall Wash White Ring+Haze Reflector
4", 6" Trims Available



SWW QuickShip
Square Wall Wash White Ring+Haze Reflector
4", 6" Trims Available



Optional Mounting Kit

FKR QuickShip
New Construction Round Frame Kit For 3"~8" Downlights

FKRJ QuickShip
New Construction Round Frame Kit With J-Box For 3"~8" Downlights

FKS QuickShip
New Construction Square Frame Kit For 4"~6" Downlights

FKSJ QuickShip
New Construction Square Frame Kit With J-Box For 4"~6" Downlights

Optional Emergency Function

Field-installed (Pre-wired option available)
Only external 8w or 25w LED emergency driver with standard indicator available.



EME/EM-H08170 QuickShip
8W Emergency LED Driver

EME/EM-H25170 QuickShip
25W Emergency LED Driver



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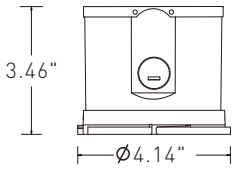
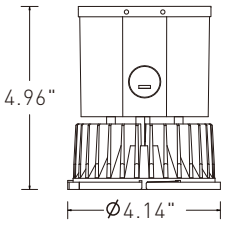
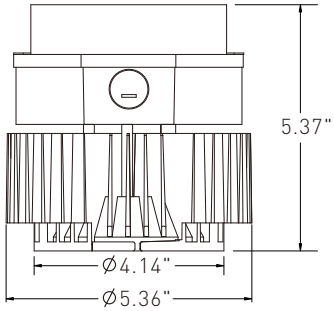
ENGINE



10W IC, 15W IC, 20W IC



40W NON-IC



60W NON-IC

TRIM DIMENSIONS

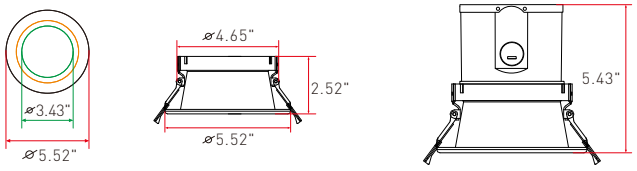
CPS-20W

4" Round Trims



White Ring+ Haze Reflector **QuickShip**
Haze Trim **QuickShip**
Rosé Trim **QuickShip**
Black Trim **QuickShip**

Mounting Diameters: 4.7"-5.2"

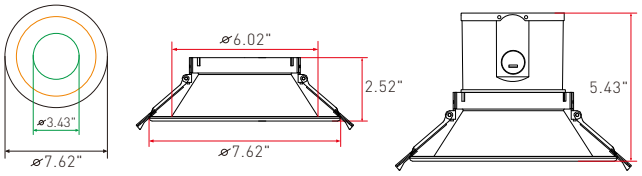


6" Round Trims



White Ring+ Haze Reflector **QuickShip**
Haze Trim **QuickShip**
Rosé Trim **QuickShip**
Black Trim **QuickShip**

Mounting Diameters: 6"-7.3"

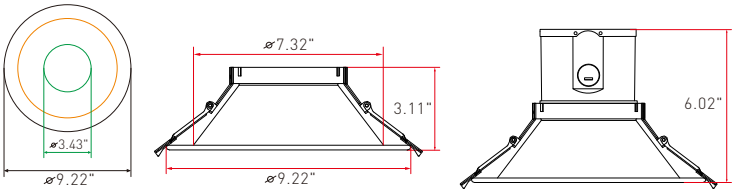


8" Round Trims



White Ring+ Haze Reflector **QuickShip**
Haze Trim **QuickShip**
Black Trim **QuickShip**

Mounting Diameters: 7.4"-8.9"

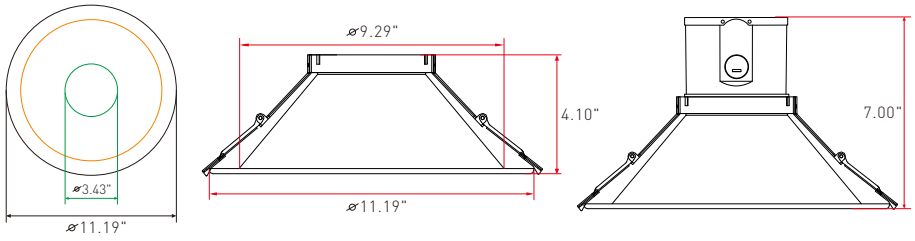


10" Round Trims



White Ring+ Haze Reflector **QuickShip**

Mounting Diameters: 9.5"-10.8"

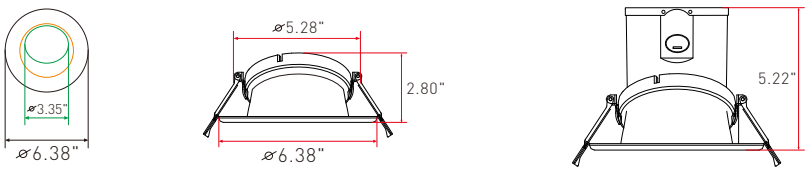


4" Round Wall Wash Trims



White Ring+ Haze Reflector **QuickShip**

Tilt:15°
Mounting Diameters: 5.3"-6"

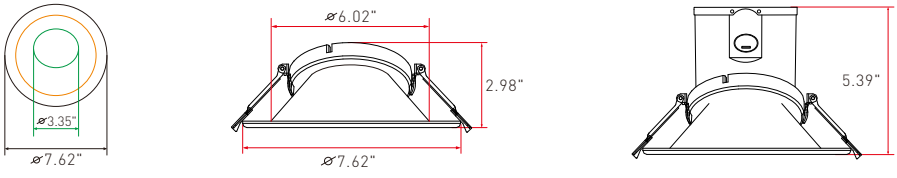


6" Round Wall Wash Trims



White Ring+ Haze Reflector **QuickShip**

Tilt:15°
Mounting Diameters: 6"-7.3"



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TRIM DIMENSIONS

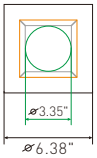
CPS-20W

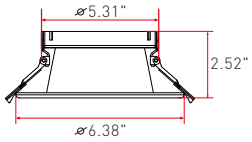
4" Square Trims

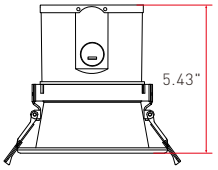




White Ring+
Haze Reflector
QuickShip







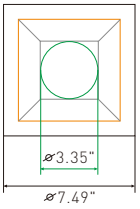
Mounting Diameters: 5.3"-6"

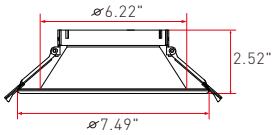
6" Square Trims

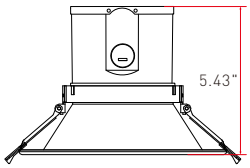




White Ring+
Haze Reflector
QuickShip







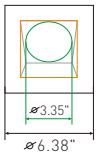
Mounting Diameters: 6"-7.3"

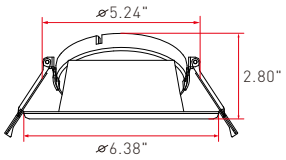
4" Square Wall Wash Trims

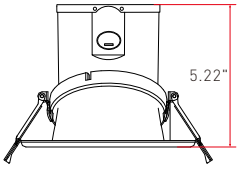




White Ring+
Haze Reflector
QuickShip







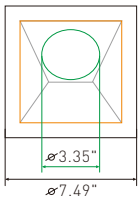
Tilt:15°
Mounting Diameters: 5.3"-6"

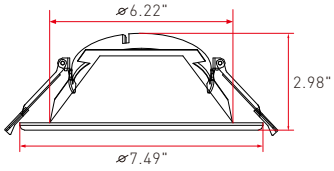
6" Square Wall Wash Trims

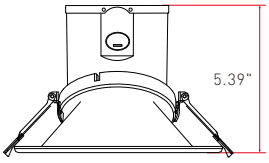




White Ring+
Haze Reflector
QuickShip







Tilt:15°
Mounting Diameters: 6"-7.3"

J-Box LED Downlight

CPS Series | Retrofit & New Construction

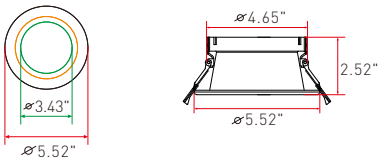
TRIM DIMENSIONS

CPS-40W

4" Round Trims



White Ring+ Haze Reflector **QuickShip**
Haze Trim **QuickShip**
Rosé Trim **QuickShip**
Black Trim **QuickShip**

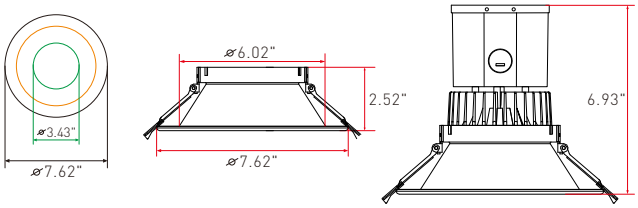


Mounting Diameters: 4.7"-5.2"

6" Round Trims

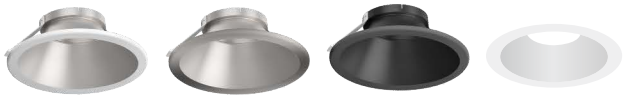


White Ring+ Haze Reflector **QuickShip**
Haze Trim **QuickShip**
Rosé Trim **QuickShip**
Black Trim **QuickShip**

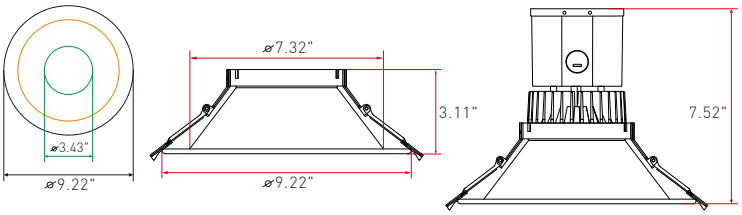


Mounting Diameters: 6"-7.3"

8" Round Trims



White Ring+ Haze Reflector **QuickShip**
Haze Trim **QuickShip**
Black Trim **QuickShip**

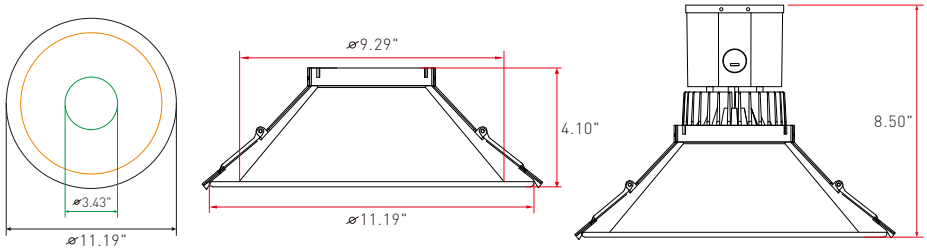


Mounting Diameters: 7.4"-8.9"

10" Round Trims



White Ring+ Haze Reflector **QuickShip**

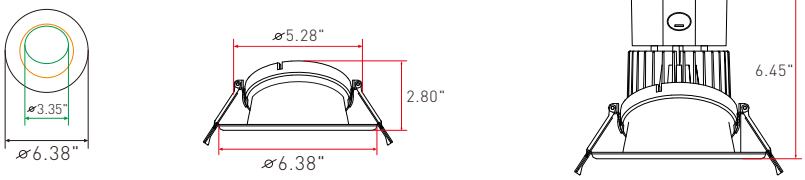


Mounting Diameters: 9.5"-10.8"

4" Round Wall Wash Trims



White Ring+ Haze Reflector **QuickShip**

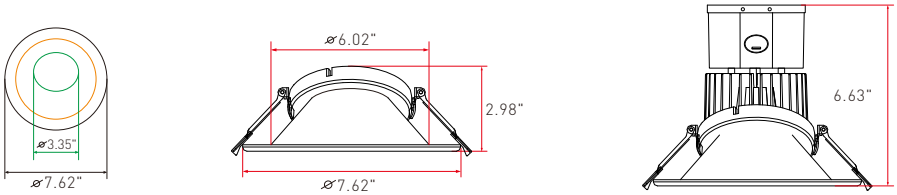


Tilt:15°
Mounting Diameters: 5.3"-6"

6" Round Wall Wash Trims



White Ring+ Haze Reflector **QuickShip**



Tilt:15°
Mounting Diameters: 6"-7.3"

J-Box LED Downlight

CPS Series | Retrofit & New Construction

TRIM DIMENSIONS

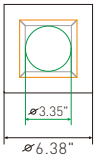
CPS-40W

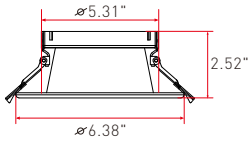
4" Square Trims

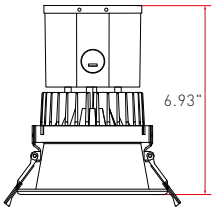




White Ring+
Haze Reflector
QuickShip







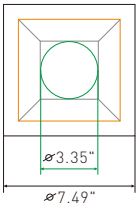
Mounting Diameters: 5.3"-6"

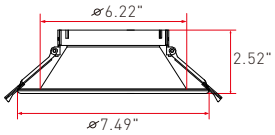
6" Square Trims

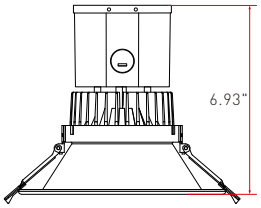




White Ring+
Haze Reflector
QuickShip







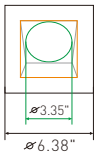
Mounting Diameters: 6"-7.3"

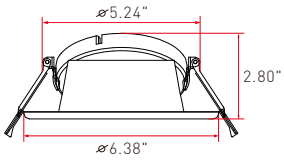
4" Square Wall Wash Trims

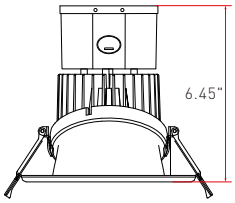




White Ring+
Haze Reflector
QuickShip







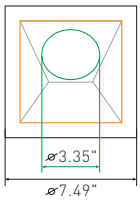
Tilt:15°
Mounting Diameters: 5.3"-6"

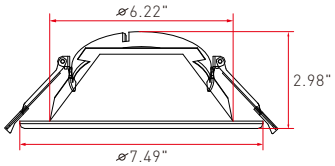
6" Square Wall Wash Trims

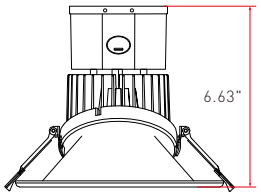




White Ring+
Haze Reflector
QuickShip







Tilt:15°
Mounting Diameters: 6"-7.3"

J-Box LED Downlight

CPS Series | Retrofit & New Construction

TRIM DIMENSIONS

CPS-60W

6" Round Trims

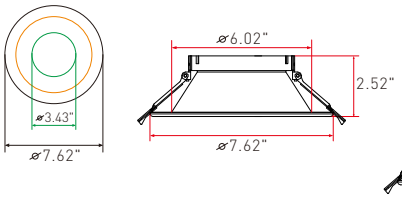


White Ring+ Haze Reflector **QuickShip**

Haze Trim **QuickShip**

Rosé Trim **QuickShip**

Black Trim **QuickShip**



Mounting Diameters: 6"-7.3"

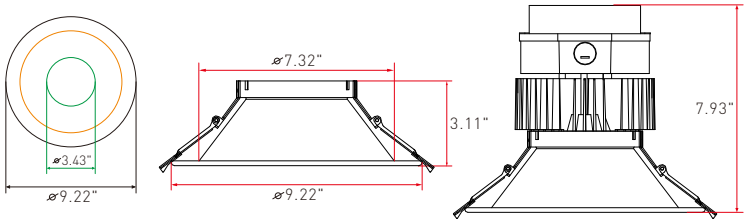
8" Round Trims



White Ring+ Haze Reflector **QuickShip**

Haze Trim **QuickShip**

Black Trim **QuickShip**

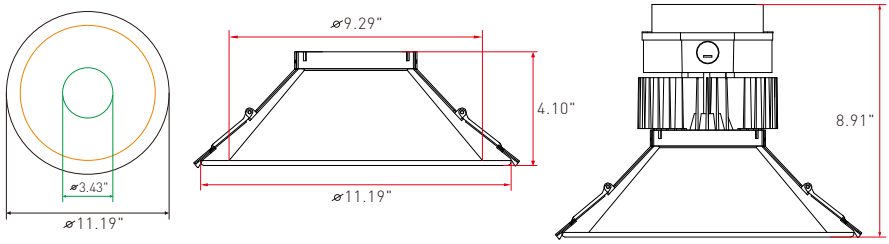


Mounting Diameters: 7.4"-8.9"

10" Round Trims



White Ring+ Haze Reflector **QuickShip**

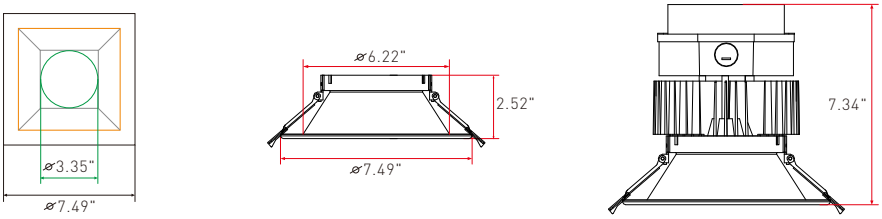


Mounting Diameters: 9.5"-10.8"

6" Square Trims



White Ring+ Haze Reflector **QuickShip**



Mounting Diameters: 6"-7.3"

J-Box LED Downlight

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Optional New Construction Frame Kits



FKR QuickShip

New Construction Round Frame Kit For 3"~8" Downlights



FKS QuickShip

New Construction Square Frame Kit For 4"~6" Downlights



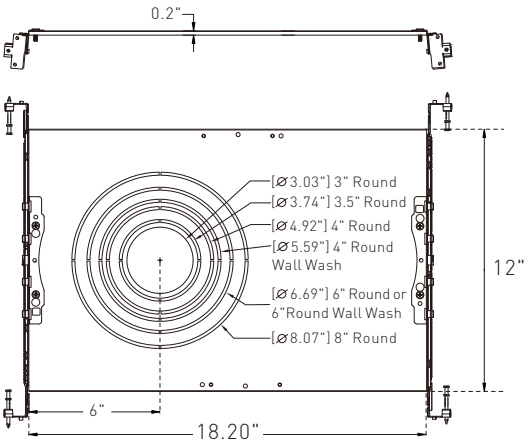
FKRJ QuickShip

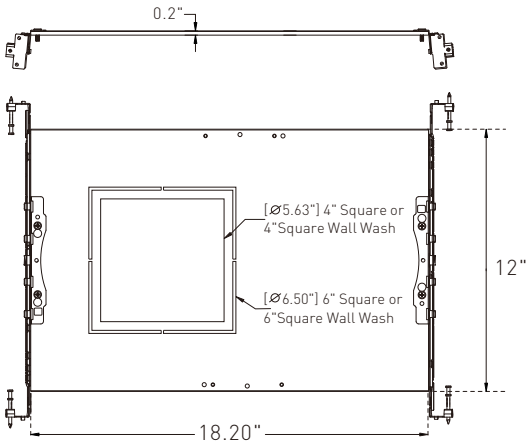
New Construction Round Frame Kit With J-Box For 3"~8" Downlights



FKSJ QuickShip

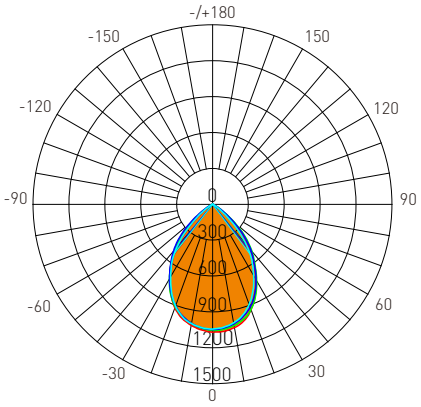
New Construction Square Frame Kit With J-Box For 4"~6" Downlights





DISTRIBUTION DIAGRAM

6" 20W Square Trim



AVERAGE BEAM ANGLE(50%): 76.6°

Lumens: 1515.4 Lm
Watts: 20 W
LPW: 75.77 Lm/W
CCT: 4000K

UNIT:cd
C0/180,75.1 °
C30/210,77.8 °
C60/240,78.3 °
C90/270,75.1 °

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	1047	1022	1007	992.7	1027
20	939.2	932.1	893.4	892.4	922.1
30	719.9	739.1	687.3	709.4	711.5
40	471.7	497.7	440.1	477.0	457.8
50	170.8	280.1	158.0	250.7	159.6
60	32.27	62.15	30.20	46.44	33.23
70	2.699	4.711	3.380	4.018	3.231
80	1.543	2.277	2.065	2.620	1.965
90	0.1002	0.0711	0.1300	0.0681	0.1300
100	0.0406	0.0496	0.0406	0.0406	0.0451
110	0.0587	0.1195	0.1128	0.1015	0.1038
120	0.2476	0.3584	0.3114	0.3492	0.3024
130	0.6308	0.7486	0.6814	0.7350	0.7086
140	1.149	1.193	1.150	1.217	1.205
150	1.614	1.648	1.633	1.653	1.682
160	2.155	2.061	2.043	2.088	2.156
170	2.363	2.331	2.304	2.322	2.422
180	2.498	2.444	2.431	2.415	2.503
DEG	LUMINOUS INTENSITY:cd				

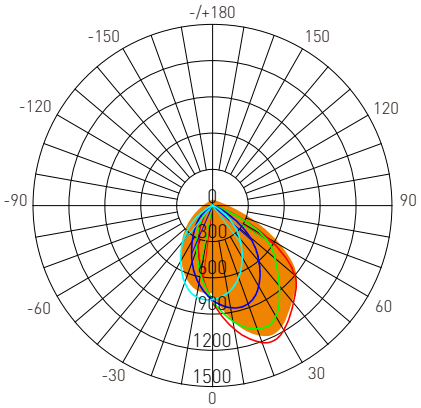
Zonal Lumens

T	ϕ total
0-10	98.17
10-20	371.6
20-30	748.1
30-40	1122
40-50	1389
50-60	1490
60-70	1507
70-80	1510
80-90	1511
90-100	1511
100-110	1511
110-120	1512
120-130	1512
130-140	1513
140-150	1514
150-160	1515
160-170	1515
170-180	1515
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	662	908
80	395	528
75	341	445
70	351	439
65	965	913
60	2869	2684
55	6050	5712
50	11807	10926
45	19770	18214

6" 20W Square Wall Wash



AVERAGE BEAM ANGLE(50%): 71.0°

Lumens: 1590.6 Lm
Watts: 20 W
LPW: 79.53 Lm/W
CCT: 4000K

UNIT:cd
C0/180,65.4 °
C30/210,68.8 °
C60/240,72.5 °
C90/270,77.0 °

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	1038	919. 6	732. 9	585. 3	554. 5
20	1209	984. 8	638. 0	411. 7	353. 7
30	1192	930. 7	494. 7	267. 4	210. 7
40	1053	743. 2	354. 7	155.9	97. 27
50	896. 8	548. 9	205.7	66.71	21.28
60	526. 2	310. 4	73.90	12.46	5.292
70	136. 0	73. 16	14.65	4.282	4.094
80	12.17	4. 784	1.600	3.400	3.395
90	0.1674	0.0925	0.0768	0.1779	0.0947
100	0.0812	0.0812	0.1175	0.2143	0.3070
110	0.0631	0.0925	0.1760	0.5996	0.7989
120	1.081	0.1646	0.3880	1.220	1.633
130	0. 1577	0.2909	0.6721	1.526	2.147
140	0. 3513	0. 4938	0. 9789	1.914	2.359
150	0. 6173	0. 7667	1. 276	2.081	2.534
160	0. 9781	1. 127	1. 565	2.182	2.530
170	1. 433	1. 522	1. 781	2.153	2.340
180	1. 935	1. 851	1. 826	1.847	1.944
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	ϕ total
0-10	73.89
10-20	284.3
20-30	592.3
30-40	929.2
40-50	1235
50-60	1461
60-70	1563
70-80	1584
80-90	1586
90-100	1586
100-110	1586
110-120	1587
120-130	1588
130-140	1588
140-150	1589
150-160	1590
160-170	1590
170-180	1591
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	373	694
80	3114	410
75	9473	779
70	17677	1904
65	31770	3741
60	46776	6569
55	57281	10368
50	62005	14225
45	61916	17780

J-Box LED Downlight

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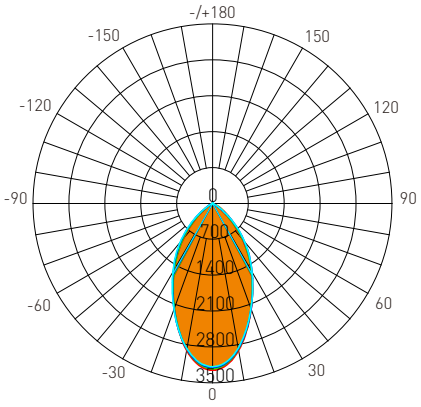
DISTRIBUTION DIAGRAM

6" 40W Round Trim



AVERAGE BEAM ANGLE(50%): 57.4°

Lumens: 3328.0 Lm
Watts: 40 W
LPW: 83.2 Lm/W
CCT: 4000K

UNIT:cd
C0/180,56.4 °
C30/210,56.9 °
C60/240,57.9 °
C90/270,58.4 °

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	2916	2896	2871	2857	2912
20	2201	2209	2188	2161	2186
30	1521	1544	1542	1506	1498
40	891.0	956.2	972.7	929.2	869.3
50	335.4	424.5	441.2	395.6	321.0
60	58.83	91.82	97.54	78.63	54.01
70	3.285	2.050	1.504	1.915	3.235
80	1.606	0.8562	0.5011	0.8066	1.591
90	0.1094	0.0676	0.0949	0.0811	0.0721
100	0.0902	0.0812	0.0857	0.0992	0.0993
110	0.1532	0.2302	0.2280	0.2212	0.1986
120	0.5046	0.6317	0.6711	0.6273	0.5778
130	1.262	1.372	1.496	1.403	1.359
140	2.366	2.405	2.542	2.450	2.455
150	3.683	3.717	3.809	3.735	3.735
160	5.157	5.110	5.117	5.088	5.184
170	6.245	6.183	6.145	6.160	6.273
180	6.732	6.710	6.593	6.620	6.755
DEG	LUMINOUS INTENSITY:cd				

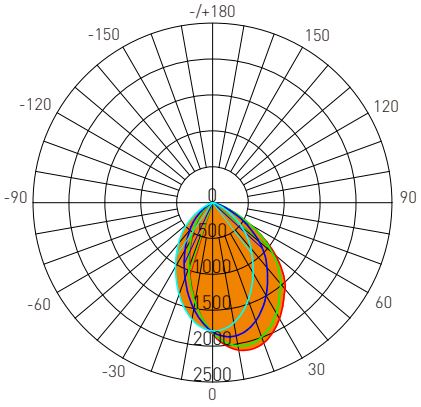
Zonal Lumens

T	ϕ total
0-10	289.3
10-20	997.9
20-30	1840
30-40	2601
40-50	3101
50-60	3290
60-70	3317
70-80	3318
80-90	3319
90-100	3319
100-110	3319
110-120	3320
120-130	3320
130-140	3322
140-150	3324
150-160	3326
160-170	3327
170-180	3328
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	742	162
80	524	163
75	497	189
70	544	249
65	1661	3557
60	6661	11045
55	15820	22953
50	29545	38863
45	47042	55891

6" 40W Round Wall Wash



AVERAGE BEAM ANGLE(50%): 71.0°

Lumens: 2949.1 Lm
Watts: 40 W
LPW: 73.73 Lm/W
CCT: 3000K

UNIT:cd
C0/180,69.2 °
C30/210,70.4 °
C60/240,72.4 °
C90/270,72.2 °

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	2085	1962	1700	1461	1397
20	2080	1892	1449	1069	944.4
30	1866	1658	1132	716.4	584.0
40	1572	1343	828.3	446.7	318.6
50	1152	1001	540.1	222.7	107.6
60	593.4	562.8	253.7	36.59	12.99
70	169.5	186.5	59.76	4.875	5.799
80	4.680	16.81	1.576	1.973	2.586
90	0.0996	0.0631	0.0831	0.1709	0.1311
100	0.0811	0.0677	0.1123	0.2708	0.3476
110	0.0812	0.1309	0.3018	0.6949	0.9297
120	0.2162	0.3294	0.7163	1.394	1.832
130	0.4958	0.6814	1.271	2.125	2.851
140	0.9914	1.173	1.857	2.832	3.771
150	1.650	1.822	2.520	3.504	4.325
160	2.502	2.603	3.201	3.991	4.613
170	3.422	3.432	3.765	4.225	4.744
180	4.216	4.104	4.000	4.054	4.230
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	ϕ total
0-10	166.4
10-20	610.3
20-30	1207
30-40	1830
40-50	2383
50-60	2750
60-70	2907
70-80	2940
80-90	2941
90-100	2941
100-110	2942
110-120	2942
120-130	2943
130-140	2945
140-150	2946
150-160	2948
160-170	2949
170-180	2949
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	182	531
80	1526	514
75	14095	3272
70	28056	9893
65	45639	18782
60	67192	28730
55	86754	38552
50	101454	47569
45	111057	55165

J-Box LED Downlight

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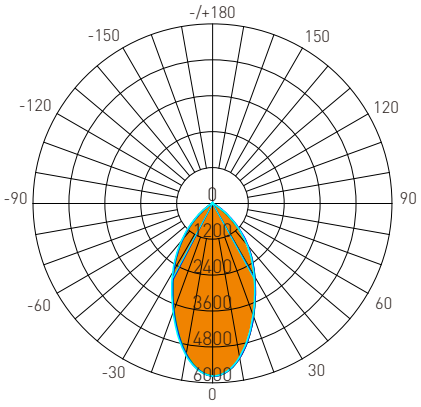
DISTRIBUTION DIAGRAM

6" 60W Round Trim



AVERAGE BEAM ANGLE(50%): 56.9°

Lumens: 6080.5 Lm
Watts: 60 W
LPW: 105.62 Lm/W
CCT: 4000K

UNIT:cd
C0/180,56.9 °
C30/210,56.9 °
C60/240,56.9 °
C90/270,57.1 °

Zonal Flux Diagram

T	C0	C45	C90	C135	C180
10	5234	5256	5211	5157	5112
20	4001	4030	3965	3873	3798
30	2811	2846	2776	2693	2616
40	1791	1860	1784	1668	1555
50	764.7	867.3	846.4	732.7	625.5
60	131.8	177.2	187.4	148.0	114.0
70	2.926	2.726	2.774	2.690	2.956
80	1.046	0.9556	1.165	1.244	1.296
90	0.9362	0.9751	1.060	1.237	0.5501
100	2.605	2.577	2.790	3.024	1.718
110	5.634	5.497	5.834	6.187	4.246
120	10.14	9.931	10.37	10.83	8.178
130	15.96	15.64	16.15	16.63	13.30
140	22.23	21.84	22.31	22.73	19.11
150	27.81	27.32	27.71	27.98	24.72
160	32.27	31.80	32.01	32.24	29.85
170	35.31	35.05	35.00	35.13	33.99
180	36.50	36.61	36.18	36.24	36.48
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

T	ϕ total
0-10	521.5
10-20	1795
20-30	3302
30-40	4671
40-50	5594
50-60	5952
60-70	6001
70-80	6003
80-90	6004
90-100	6005
100-110	6009
110-120	6016
120-130	6027
130-140	6040
140-150	6055
150-160	6068
160-170	6077
170-180	6080
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	503	597
80	343	381
75	383	379
70	487	461
65	3558	5987
60	15005	21281
55	36550	45136
50	67697	74783
45	101909	104814