

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P766401

Luminaire Tested: LD6D45BD010-EU6DR3040509030-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D45BD010-EU6DR3040509030-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4271.7 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

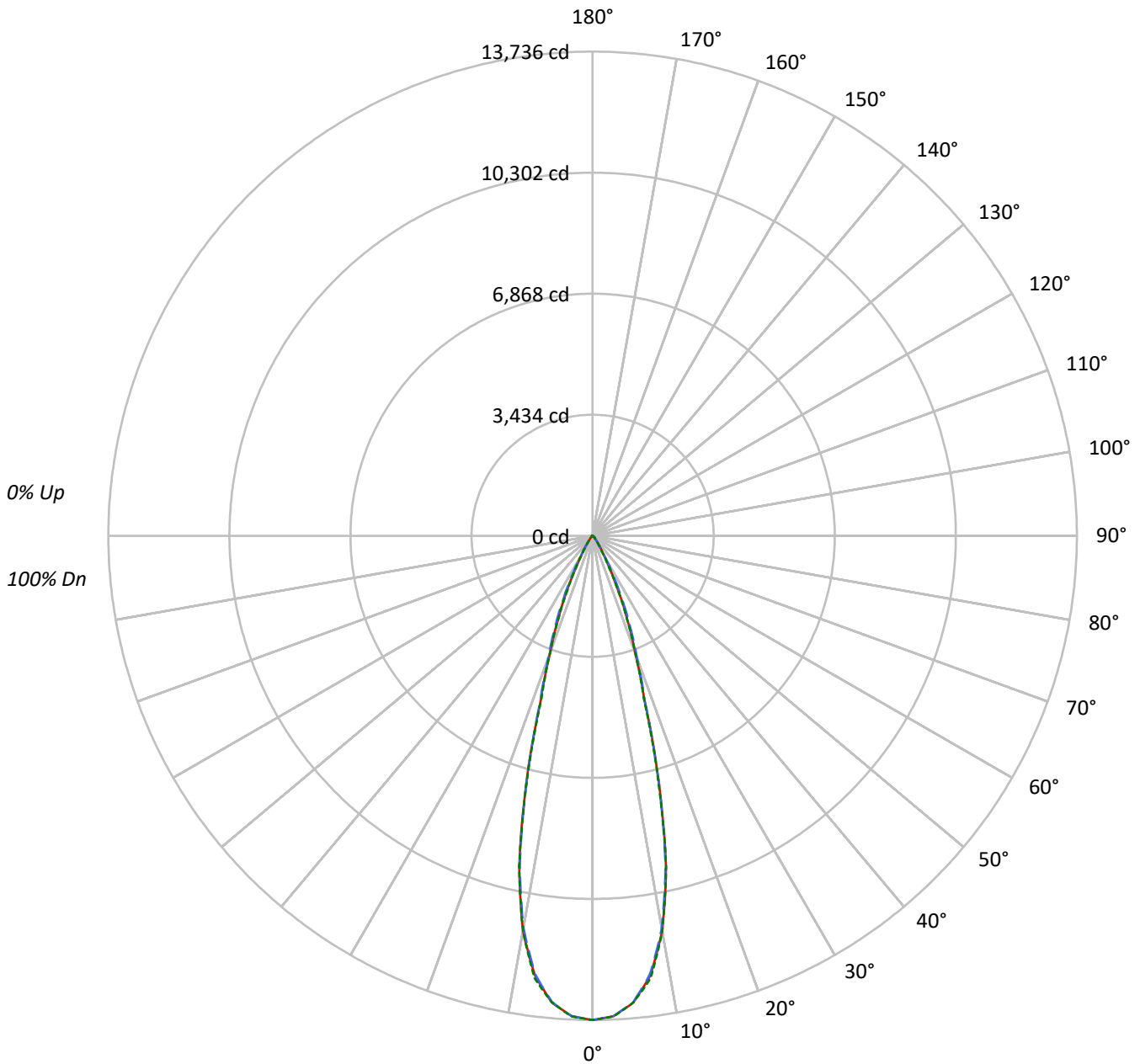


Downlight

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1051377	1051377	1051377
5°	1021194	1020003	1021247
10°	884509	878276	884299
15°	577099	574001	571116
20°	286969	297729	286578
25°	144555	163009	141591
30°	57874	63062	50423
35°	26846	25706	21548
40°	11591	12870	10911
45°	8173	10143	8249
50°	2810	7383	2977
55°	1615	3056	1708
60°	1133	1347	1133
65°	724	724	724
70°	448	291	448
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 10143 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1207.8	28.3
10°-20°	1945.3	45.5
20°-30°	840.6	19.7
30°-40°	191.6	4.5
40°-50°	65.8	1.5
50°-60°	16.1	0.4
60°-70°	4.2	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3993.7	93.5
0°-40°	4185.3	98.0
0°-60°	4267.1	99.9
0°-90°	4271.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4271.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13736	13736	13736	13736	13736	
5°	13291	13278	13275	13303	13291	1209
15°	7283	7195	7244	7220	7207	1950
25°	1712	1776	1930	1731	1676	819
35°	287	293	275	273	231	195
45°	76	94	94	94	76	54
55°	12	13	23	14	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13735.7	13735.7	13735.7	13735.7	13735.7
2.5°	13644.7	13635.3	13640.6	13647.4	13650.1
5°	13290.6	13277.8	13275.1	13302.8	13291.3
7.5°	12576.5	12558.3	12530.6	12593.3	12652.0
10°	11380.1	11359.9	11299.9	11329.6	11377.4
12.5°	9613.9	9548.5	9547.2	9641.6	9628.8
15°	7282.6	7194.9	7243.5	7219.9	7207.1
17.5°	4897.3	4863.6	4928.4	4908.8	4824.5
20°	3523.0	3531.7	3655.1	3593.1	3518.2
22.5°	2570.7	2602.4	2748.8	2588.9	2530.3
25°	1711.6	1776.3	1930.1	1731.1	1676.5
27.5°	1052.7	1082.4	1238.2	1039.2	1009.5
30°	654.8	640.0	713.5	612.3	570.5
32.5°	429.6	410.7	434.3	389.8	356.1
35°	287.3	293.4	275.1	273.1	230.6
37.5°	179.4	206.4	182.1	194.2	148.4
40°	116.0	149.7	128.8	142.3	109.2
42.5°	95.1	115.3	105.9	112.6	97.1
45°	75.5	93.7	93.7	93.7	76.2
47.5°	41.8	62.7	80.3	64.1	44.5
50°	23.6	31.7	62.0	33.0	25.0
52.5°	16.2	18.2	42.5	18.9	16.9
55°	12.1	12.8	22.9	13.5	12.8
57.5°	9.4	10.1	12.1	10.1	9.4
60°	7.4	7.4	8.8	8.1	7.4
62.5°	5.4	5.4	6.1	5.4	5.4
65°	4.0	4.0	4.0	4.0	4.0
67.5°	2.0	2.7	2.7	2.7	2.7
70°	2.0	1.3	1.3	1.3	2.0
72.5°	1.3	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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