

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: P766416

Luminaire Tested: LD6D45BD010-EU6DR3040509035-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766416
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-EU6DR3040509035-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5093.8 lumens
Efficiency: N/A
Efficacy: 131.6 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

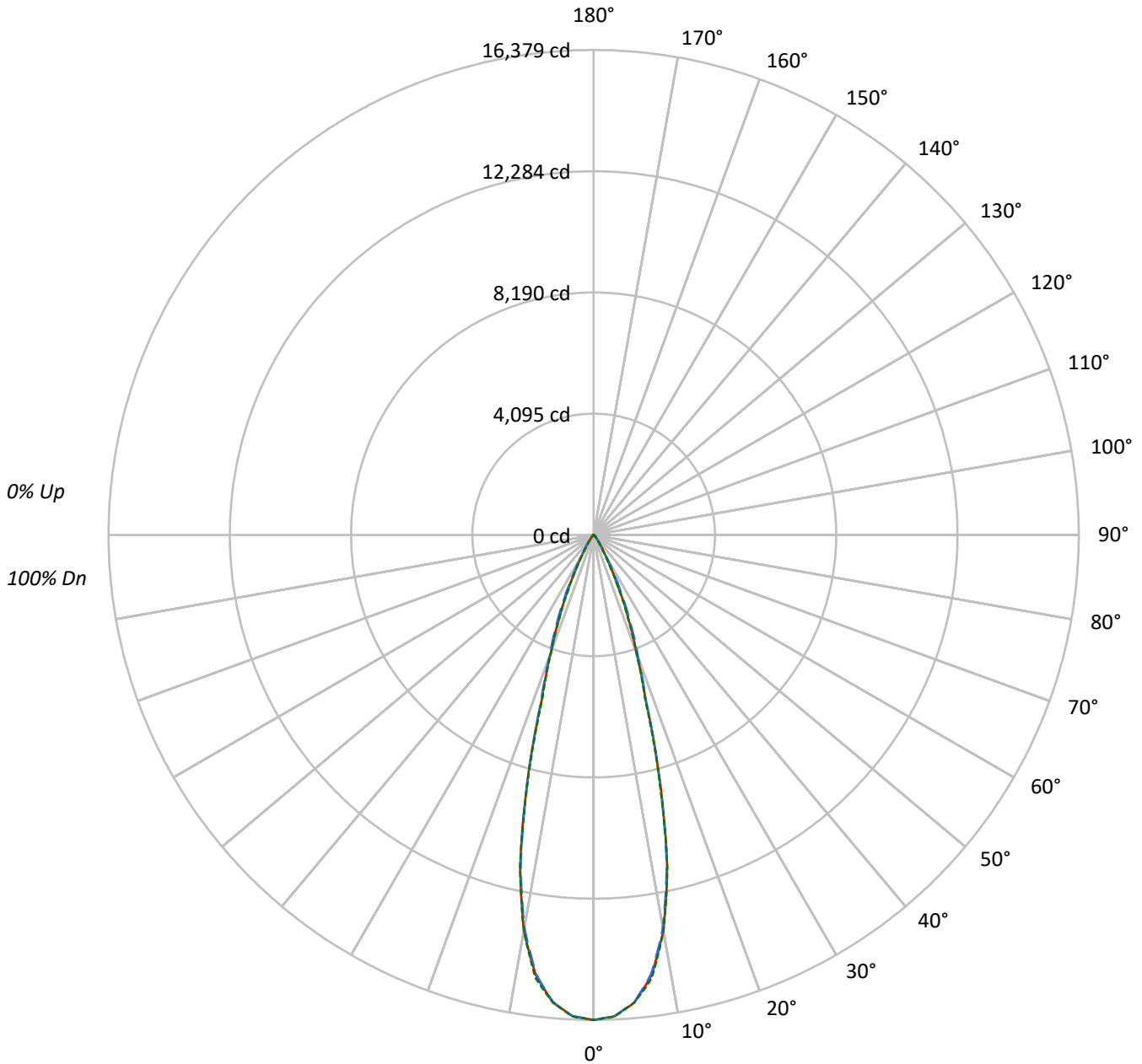


Downlight

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CATALOG NUMBER: LD6D45BD010-EU6DR3040509035-6LBS1H

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1253704	1253704	1253704
5°	1217709	1216287	1217770
10°	1054725	1047287	1054476
15°	688151	684458	681019
20°	342188	355025	341731
25°	172367	194376	168837
30°	69011	75198	60128
35°	32013	30658	25697
40°	13819	15348	13020
45°	9753	12102	9840
50°	3346	8812	3549
55°	1935	3643	2042
60°	1347	1607	1347
65°	869	869	869
70°	537	358	537
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12102 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1440.3	28.3
10°-20°	2319.6	45.5
20°-30°	1002.4	19.7
30°-40°	228.5	4.5
40°-50°	78.5	1.5
50°-60°	19.2	0.4
60°-70°	4.9	0.1
70°-80°	0.5	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°	4762.2	93.5
0°-40°	4990.7	98.0
0°-60°	5088.3	99.9
0°-90°	5093.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5093.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16379	16379	16379	16379	16379	
5°	15848	15833	15830	15863	15849	1441
15°	8684	8580	8637	8609	8594	2325
25°	2041	2118	2302	2064	1999	977
35°	343	350	328	326	275	232
45°	90	112	112	112	91	64
55°	14	15	27	16	15	14
65°	5	5	5	5	5	5
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°	16379.0	16379.0	16379.0	16379.0	16379.0
2.5°	16270.4	16259.2	16265.6	16273.6	16276.9
5°	15848.2	15833.0	15829.7	15862.7	15849.0
7.5°	14996.6	14974.9	14942.0	15016.7	15086.7
10°	13570.1	13545.9	13474.4	13509.8	13566.9
12.5°	11464.0	11386.0	11384.4	11497.0	11481.7
15°	8684.0	8579.5	8637.4	8609.3	8594.0
17.5°	5839.8	5799.5	5876.7	5853.4	5752.9
20°	4200.9	4211.3	4358.5	4284.5	4195.3
22.5°	3065.4	3103.2	3277.7	3087.1	3017.2
25°	2040.9	2118.1	2301.5	2064.3	1999.1
27.5°	1255.3	1290.7	1476.4	1239.2	1203.8
30°	780.8	763.1	850.8	730.2	680.3
32.5°	512.2	489.7	517.9	464.8	424.6
35°	342.6	349.8	328.1	325.7	275.0
37.5°	213.9	246.1	217.1	231.6	176.9
40°	138.3	178.5	153.6	169.7	130.3
42.5°	113.4	137.5	126.3	134.3	115.8
45°	90.1	111.8	111.8	111.8	90.9
47.5°	49.9	74.8	95.7	76.4	53.1
50°	28.1	37.8	74.0	39.4	29.8
52.5°	19.3	21.7	50.7	22.5	20.1
55°	14.5	15.3	27.3	16.1	15.3
57.5°	11.3	12.1	14.5	12.1	11.3
60°	8.8	8.8	10.5	9.6	8.8
62.5°	6.4	6.4	7.2	6.4	6.4
65°	4.8	4.8	4.8	4.8	4.8
67.5°	2.4	3.2	3.2	3.2	3.2
70°	2.4	1.6	1.6	1.6	2.4
72.5°	1.6	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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