

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: P766429

Luminaire Tested: LD6D45BD010-EU6DR3040509040-6LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766429
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-EU6DR3040509040-6LBS1H
Description: 6 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5331.9 lumens
Efficiency: N/A
Efficacy: 137.8 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

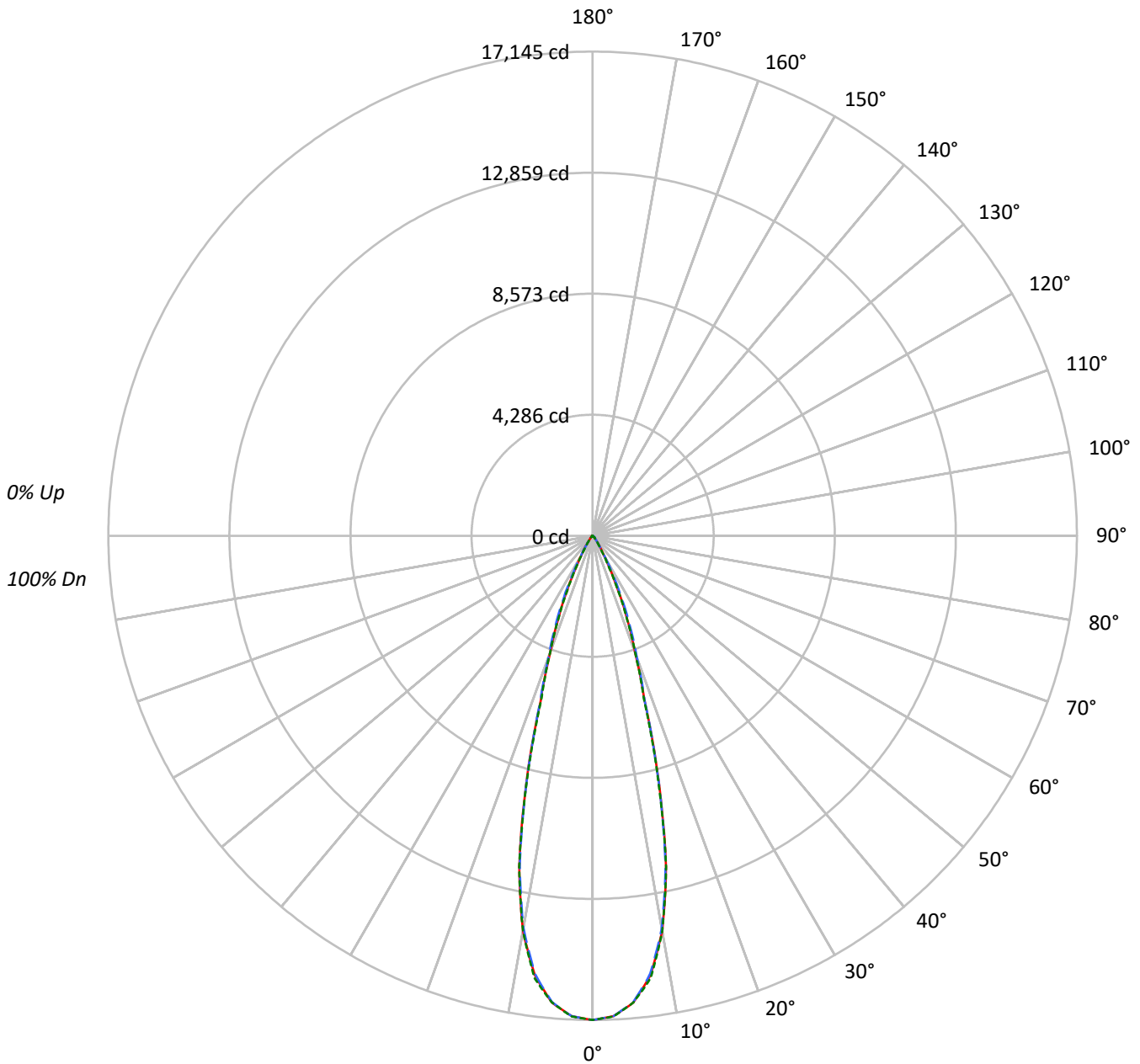


Downlight

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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	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°	1312314	1312314	1312314
5°	1274644	1273153	1274706
10°	1104033	1096245	1103769
15°	720324	716457	712859
20°	358186	371626	357705
25°	180432	203464	176733
30°	72237	78715	62939
35°	33508	32088	26902
40°	14468	16067	13629
45°	10208	12665	10294
50°	3513	9217	3703
55°	2028	3817	2135
60°	1424	1669	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12665 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1507.6	28.3
10°-20°	2428.0	45.5
20°-30°	1049.2	19.7
30°-40°	239.1	4.5
40°-50°	82.1	1.5
50°-60°	20.1	0.4
60°-70°	5.2	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°	4984.9	93.5
0°-40°	5224.0	98.0
0°-60°	5326.2	99.9
0°-90°	5331.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5331.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17145	17145	17145	17145	17145	
5°	16589	16573	16570	16604	16590	1509
15°	9090	8981	9041	9012	8996	2434
25°	2136	2217	2409	2161	2093	1023
35°	359	366	343	341	288	243
45°	94	117	117	117	95	67
55°	15	16	29	17	16	15
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°	17144.7	17144.7	17144.7	17144.7	17144.7
2.5°	17031.1	17019.3	17026.0	17034.5	17037.8
5°	16589.2	16573.2	16569.8	16604.3	16590.0
7.5°	15697.8	15675.0	15640.5	15718.8	15792.0
10°	14204.5	14179.2	14104.3	14141.4	14201.1
12.5°	12000.0	11918.3	11916.6	12034.5	12018.5
15°	9090.0	8980.6	9041.2	9011.8	8995.8
17.5°	6112.8	6070.7	6151.5	6127.1	6021.9
20°	4397.3	4408.2	4562.3	4484.8	4391.4
22.5°	3208.7	3248.3	3431.0	3231.5	3158.2
25°	2136.4	2217.2	2409.1	2160.8	2092.6
27.5°	1314.0	1351.0	1545.4	1297.1	1260.1
30°	817.3	798.8	890.6	764.3	712.1
32.5°	536.2	512.6	542.1	486.5	444.4
35°	358.6	366.2	343.4	340.9	287.9
37.5°	223.9	257.6	227.3	242.4	185.2
40°	144.8	186.9	160.8	177.6	136.4
42.5°	118.7	143.9	132.2	140.6	121.2
45°	94.3	117.0	117.0	117.0	95.1
47.5°	52.2	78.3	100.2	80.0	55.6
50°	29.5	39.6	77.4	41.2	31.1
52.5°	20.2	22.7	53.0	23.6	21.0
55°	15.2	16.0	28.6	16.8	16.0
57.5°	11.8	12.6	15.2	12.6	11.8
60°	9.3	9.3	10.9	10.1	9.3
62.5°	6.7	6.7	7.6	6.7	6.7
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	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

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

Scaled Data Report



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Scaled Data Report





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

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