

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: P766441

Luminaire Tested: LD6D45BD010-EU6DR3040509050-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P766441
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-EU6DR3040509050-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5034.8 lumens
Efficiency: N/A
Efficacy: 130.1 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

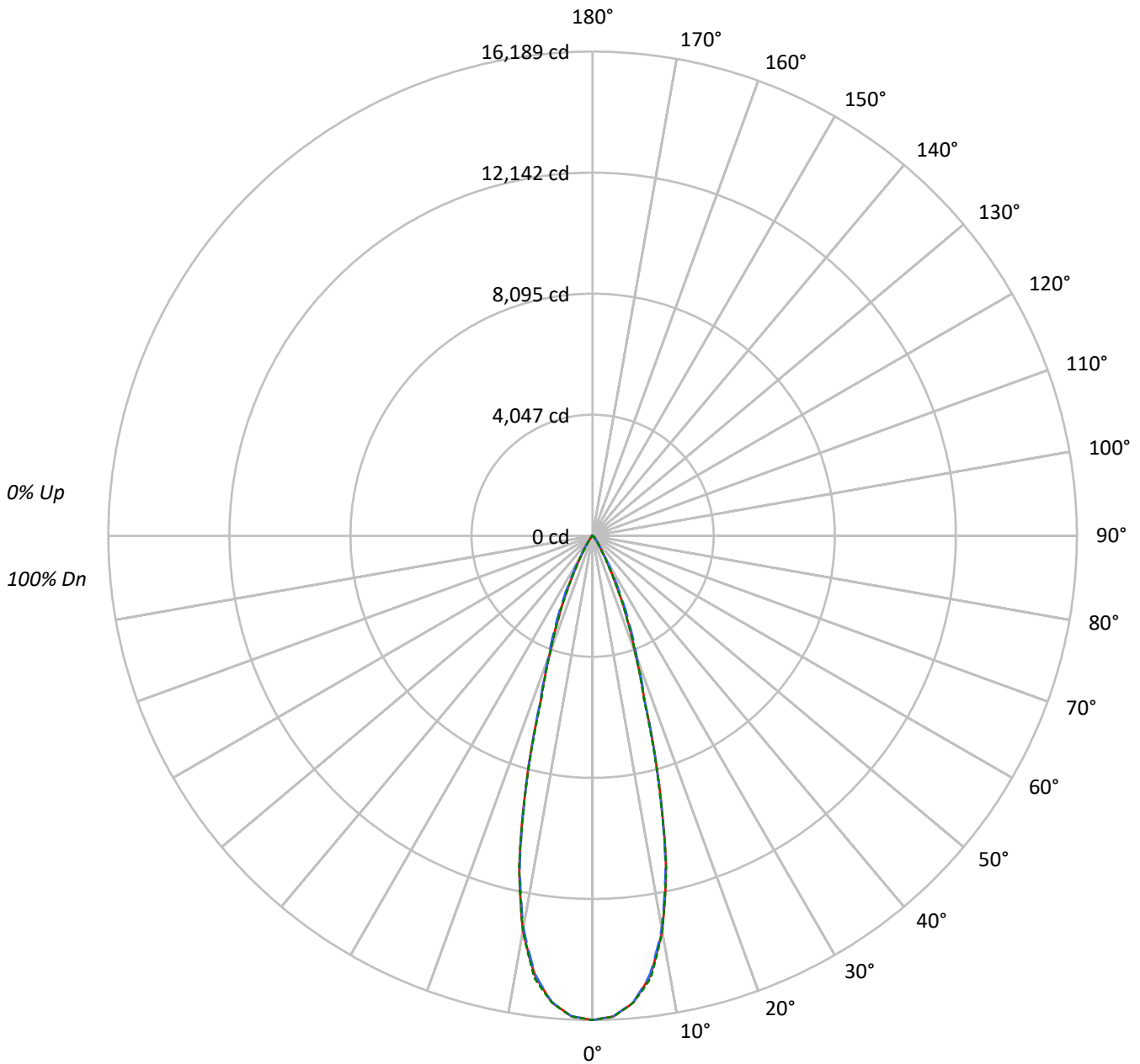


Downlight

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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°	1239192	1239192	1239192
5°	1203617	1202211	1203679
10°	1042515	1035162	1042266
15°	680187	676534	673134
20°	338229	350912	337773
25°	170374	192121	166886
30°	68215	74323	59430
35°	31640	30303	25398
40°	13659	15168	12870
45°	9634	11961	9721
50°	3310	8705	3501
55°	1908	3603	2015
60°	1332	1577	1332
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: 11961 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1423.6	28.3
10°-20°	2292.7	45.5
20°-30°	990.7	19.7
30°-40°	225.8	4.5
40°-50°	77.5	1.5
50°-60°	18.9	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°	4707.1	93.5
0°-40°	4932.9	98.0
0°-60°	5029.4	99.9
0°-90°	5034.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5034.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16189	16189	16189	16189	16189	
5°	15665	15650	15646	15679	15666	1425
15°	8584	8480	8537	8510	8494	2298
25°	2017	2094	2275	2040	1976	966
35°	339	346	324	322	272	230
45°	89	110	110	110	90	63
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°	16189.4	16189.4	16189.4	16189.4	16189.4
2.5°	16082.0	16070.9	16077.3	16085.2	16088.4
5°	15664.8	15649.7	15646.5	15679.1	15665.6
7.5°	14823.0	14801.6	14769.0	14842.9	14912.0
10°	13413.0	13389.1	13318.4	13353.4	13409.8
12.5°	11331.3	11254.2	11252.6	11363.9	11348.8
15°	8583.5	8480.2	8537.4	8509.6	8494.5
17.5°	5772.1	5732.4	5808.7	5785.7	5686.3
20°	4152.3	4162.6	4308.0	4234.9	4146.7
22.5°	3029.9	3067.3	3239.8	3051.4	2982.2
25°	2017.3	2093.6	2274.8	2040.4	1976.0
27.5°	1240.7	1275.7	1459.3	1224.9	1189.9
30°	771.8	754.3	840.9	721.7	672.4
32.5°	506.3	484.1	511.9	459.4	419.7
35°	338.6	345.8	324.3	321.9	271.8
37.5°	211.4	243.2	214.6	228.9	174.9
40°	136.7	176.5	151.8	167.7	128.8
42.5°	112.1	135.9	124.8	132.7	114.5
45°	89.0	110.5	110.5	110.5	89.8
47.5°	49.3	73.9	94.6	75.5	52.5
50°	27.8	37.4	73.1	38.9	29.4
52.5°	19.1	21.5	50.1	22.3	19.9
55°	14.3	15.1	27.0	15.9	15.1
57.5°	11.1	11.9	14.3	11.9	11.1
60°	8.7	8.7	10.3	9.5	8.7
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

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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