

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: P792801

Luminaire Tested: LER6D45BD010-EC6DR3040509040-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792801
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: LER6D45BD010-EC6DR3040509040-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 5318.6 lumens
Efficiency: N/A
Efficacy: 137.4 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

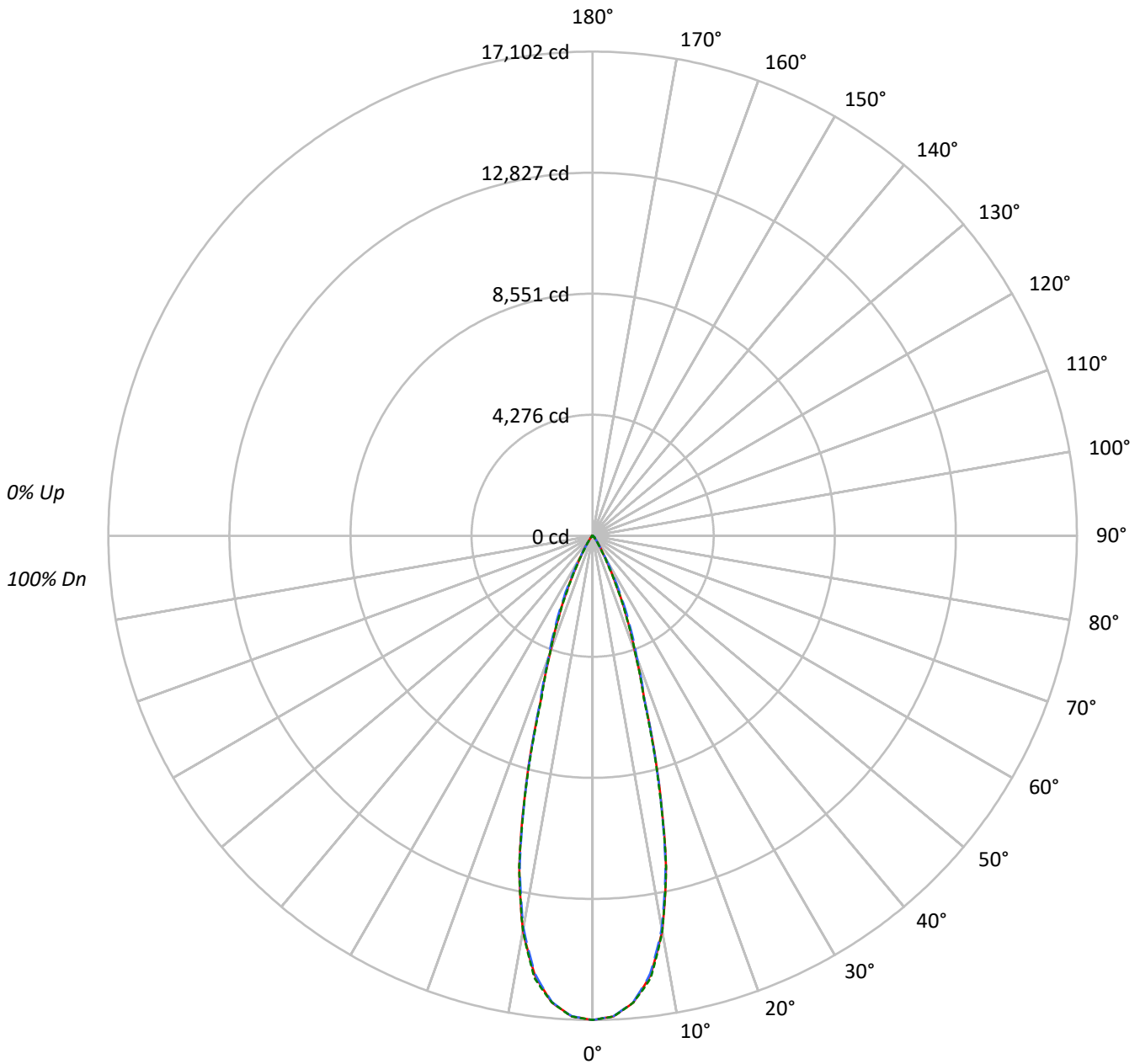


Downlight

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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°	1309038	1309038	1309038
5°	1271455	1269972	1271517
10°	1101274	1093510	1101010
15°	718525	714666	711076
20°	357289	370697	356809
25°	179976	202957	176294
30°	72060	78512	62780
35°	33424	32013	26837
40°	14428	16027	13589
45°	10175	12633	10273
50°	3501	9193	3703
55°	2015	3803	2135
60°	1408	1669	1408
65°	906	906	906
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: 12633 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1503.8	28.3
10°-20°	2422.0	45.5
20°-30°	1046.6	19.7
30°-40°	238.5	4.5
40°-50°	81.9	1.5
50°-60°	20.0	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°	4972.4	93.5
0°-40°	5210.9	98.0
0°-60°	5312.9	99.9
0°-90°	5318.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5318.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17102	17102	17102	17102	17102	
5°	16548	16532	16528	16563	16548	1505
15°	9067	8958	9019	8989	8973	2428
25°	2131	2212	2403	2155	2087	1020
35°	358	365	343	340	287	243
45°	94	117	117	117	95	67
55°	15	16	28	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°	17101.9	17101.9	17101.9	17101.9	17101.9
2.5°	16988.5	16976.8	16983.5	16991.9	16995.2
5°	16547.7	16531.7	16528.4	16562.8	16548.5
7.5°	15658.5	15635.8	15601.4	15679.5	15752.6
10°	14169.0	14143.8	14069.1	14106.0	14165.6
12.5°	11970.0	11888.5	11886.8	12004.4	11988.4
15°	9067.3	8958.2	9018.6	8989.2	8973.3
17.5°	6097.5	6055.5	6136.1	6111.8	6006.8
20°	4386.3	4397.2	4550.9	4473.6	4380.4
22.5°	3200.7	3240.2	3422.4	3223.4	3150.3
25°	2131.0	2211.6	2403.1	2155.4	2087.4
27.5°	1310.7	1347.6	1541.6	1293.9	1256.9
30°	815.3	796.8	888.3	762.4	710.3
32.5°	534.9	511.3	540.7	485.3	443.3
35°	357.7	365.2	342.6	340.1	287.2
37.5°	223.3	256.9	226.7	241.8	184.7
40°	144.4	186.4	160.4	177.2	136.0
42.5°	118.4	143.6	131.8	140.2	120.9
45°	94.0	116.7	116.7	116.7	94.9
47.5°	52.1	78.1	99.9	79.8	55.4
50°	29.4	39.5	77.2	41.1	31.1
52.5°	20.2	22.7	52.9	23.5	21.0
55°	15.1	16.0	28.5	16.8	16.0
57.5°	11.8	12.6	15.1	12.6	11.8
60°	9.2	9.2	10.9	10.1	9.2
62.5°	6.7	6.7	7.6	6.7	6.7
65°	5.0	5.0	5.0	5.0	5.0
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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