

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: P792297

Luminaire Tested: LER6D40BD010-EC6DR3040509027-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P792297
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: LER6D40BD010-EC6DR3040509027-6LBDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4455.6 lumens
Efficiency: N/A
Efficacy: 126.6 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): 35.2
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

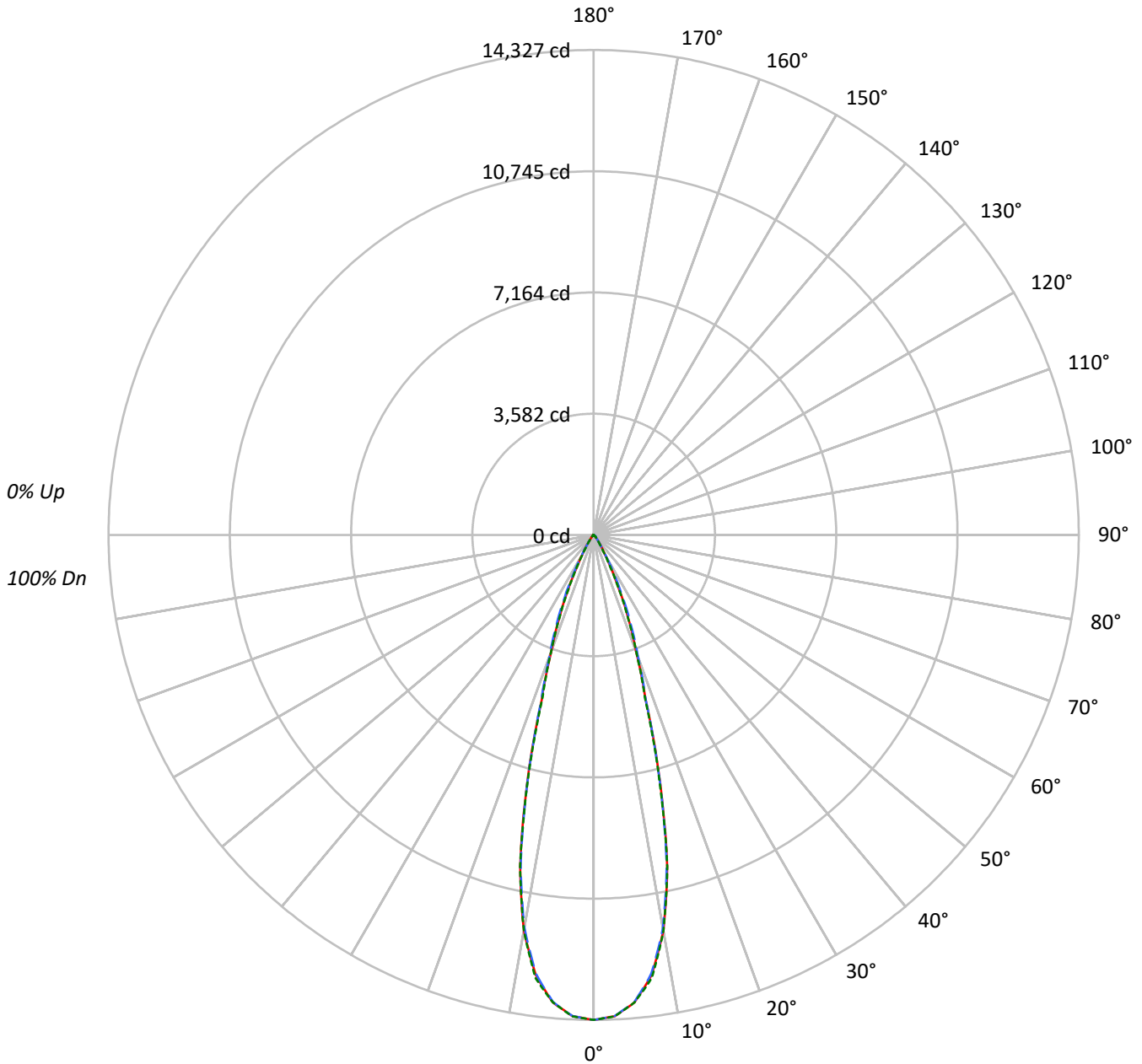


Downlight

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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°	1096622	1096622	1096622
5°	1065144	1063899	1065197
10°	922578	916073	922361
15°	601934	598701	595690
20°	299317	310542	298910
25°	150771	170019	147689
30°	60367	65776	52598
35°	27995	26818	22482
40°	12090	13419	11391
45°	8530	10587	8606
50°	2929	7705	3096
55°	1695	3189	1788
60°	1179	1393	1179
65°	761	761	761
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10587 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1259.8	28.3
10°-20°	2029.0	45.5
20°-30°	876.8	19.7
30°-40°	199.8	4.5
40°-50°	68.6	1.5
50°-60°	16.8	0.4
60°-70°	4.3	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°	4165.6	93.5
0°-40°	4365.4	98.0
0°-60°	4450.8	99.9
0°-90°	4455.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4455.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14327	14327	14327	14327	14327	
5°	13863	13849	13846	13875	13863	1261
15°	7596	7505	7555	7531	7517	2034
25°	1785	1853	2013	1806	1749	855
35°	300	306	287	285	241	203
45°	79	98	98	98	80	56
55°	13	13	24	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°	14326.8	14326.8	14326.8	14326.8	14326.8
2.5°	14231.9	14222.0	14227.7	14234.7	14237.5
5°	13862.6	13849.2	13846.4	13875.3	13863.3
7.5°	13117.7	13098.7	13069.9	13135.3	13196.5
10°	11869.9	11848.8	11786.2	11817.1	11867.1
12.5°	10027.7	9959.4	9958.0	10056.5	10043.1
15°	7596.0	7504.6	7555.2	7530.6	7517.2
17.5°	5108.1	5072.9	5140.4	5120.0	5032.1
20°	3674.6	3683.7	3812.4	3747.7	3669.6
22.5°	2681.4	2714.4	2867.1	2700.4	2639.2
25°	1785.2	1852.8	2013.1	1805.6	1748.7
27.5°	1098.0	1129.0	1291.4	1083.9	1053.0
30°	683.0	667.5	744.2	638.7	595.1
32.5°	448.1	428.4	453.0	406.6	371.4
35°	299.6	306.0	287.0	284.9	240.6
37.5°	187.1	215.2	189.9	202.6	154.7
40°	121.0	156.2	134.3	148.4	114.0
42.5°	99.2	120.3	110.4	117.5	101.3
45°	78.8	97.8	97.8	97.8	79.5
47.5°	43.6	65.4	83.7	66.8	46.4
50°	24.6	33.1	64.7	34.5	26.0
52.5°	16.9	19.0	44.3	19.7	17.6
55°	12.7	13.4	23.9	14.1	13.4
57.5°	9.8	10.6	12.7	10.6	9.8
60°	7.7	7.7	9.1	8.4	7.7
62.5°	5.6	5.6	6.3	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	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

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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