

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: P790217

Luminaire Tested: LER6D20D010-EC6DR3020359050-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P790217
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: LER6D20D010-EC6DR3020359050-6LBDDP1LI
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3679.3 lumens
Efficiency: N/A
Efficacy: 159.3 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

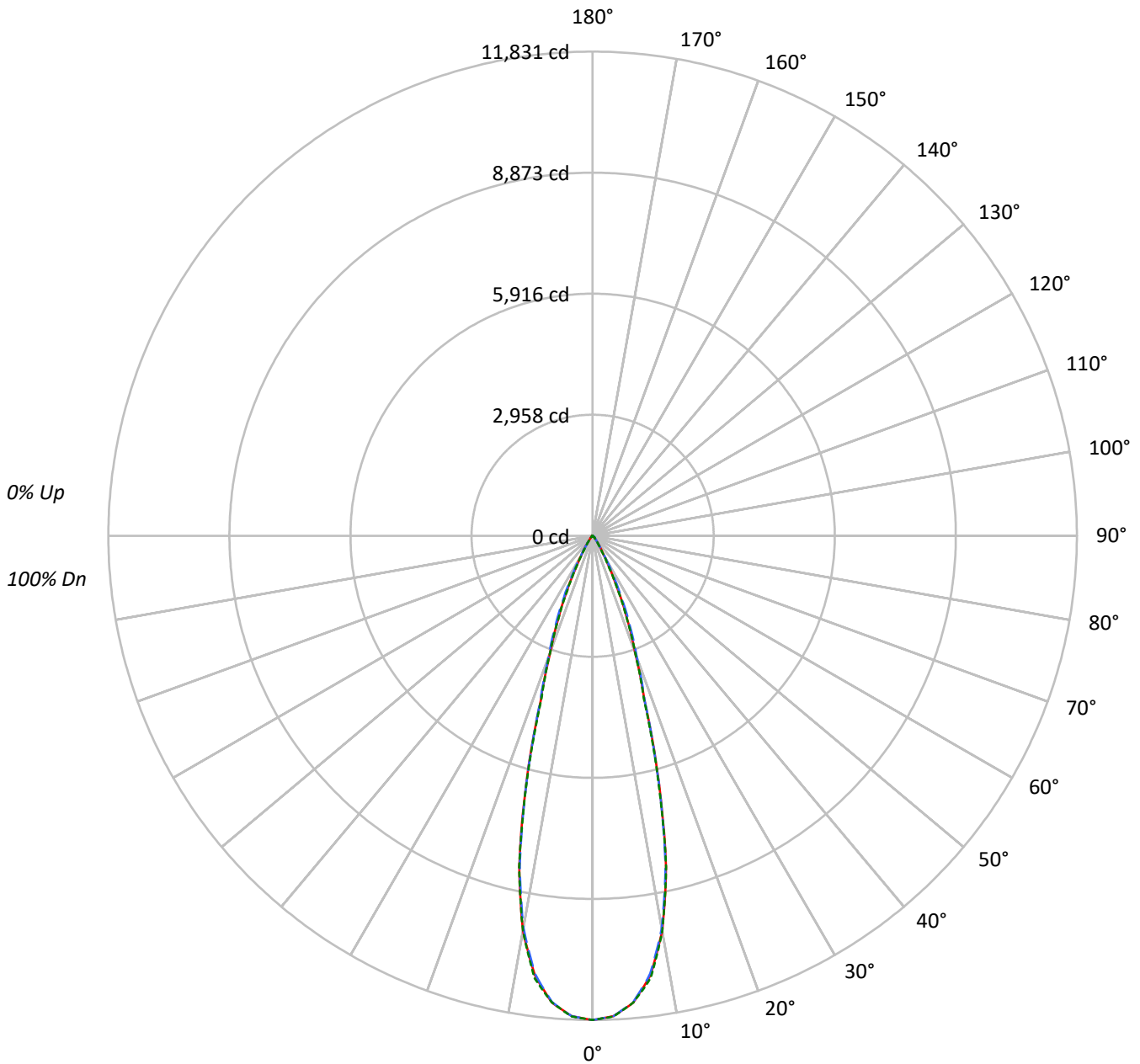
Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	905570	905570	905570
5°	879570	878548	879616
10°	761845	756466	761658
15°	497063	494393	491912
20°	247169	256439	246835
25°	124505	140400	121955
30°	49849	54312	43432
35°	23118	22146	18567
40°	9982	11081	9403
45°	7047	8736	7101
50°	2417	6359	2560
55°	1401	2629	1468
60°	980	1163	980
65°	634	634	634
70°	380	269	380
75°	0	177	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 8736 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1040.3	28.3
10°-20°	1675.5	45.5
20°-30°	724.0	19.7
30°-40°	165.0	4.5
40°-50°	56.6	1.5
50°-60°	13.8	0.4
60°-70°	3.6	0.1
70°-80°	0.4	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°	3439.8	93.5
0°-40°	3604.8	98.0
0°-60°	3675.3	99.9
0°-90°	3679.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3679.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11831	11831	11831	11831	11831	
5°	11447	11436	11434	11458	11448	1041
15°	6273	6197	6239	6219	6208	1680
25°	1474	1530	1662	1491	1444	706
35°	247	253	237	235	199	168
45°	65	81	81	81	66	46
55°	10	11	20	12	11	10
65°	4	4	4	4	4	3
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11830.8	11830.8	11830.8	11830.8	11830.8
2.5°	11752.4	11744.2	11748.9	11754.7	11757.0
5°	11447.4	11436.4	11434.1	11457.9	11448.0
7.5°	10832.3	10816.6	10792.8	10846.8	10897.3
10°	9801.9	9784.4	9732.7	9758.3	9799.5
12.5°	8280.6	8224.3	8223.1	8304.4	8293.4
15°	6272.6	6197.1	6238.9	6218.6	6207.6
17.5°	4218.1	4189.1	4244.9	4228.0	4155.4
20°	3034.4	3041.9	3148.2	3094.8	3030.3
22.5°	2214.2	2241.5	2367.5	2229.9	2179.4
25°	1474.2	1530.0	1662.4	1491.0	1444.0
27.5°	906.7	932.3	1066.4	895.1	869.5
30°	564.0	551.2	614.5	527.4	491.4
32.5°	370.0	353.7	374.1	335.7	306.7
35°	247.4	252.7	237.0	235.2	198.7
37.5°	154.5	177.7	156.8	167.3	127.8
40°	99.9	128.9	110.9	122.6	94.1
42.5°	81.9	99.3	91.2	97.0	83.6
45°	65.1	80.7	80.7	80.7	65.6
47.5°	36.0	54.0	69.1	55.2	38.3
50°	20.3	27.3	53.4	28.5	21.5
52.5°	13.9	15.7	36.6	16.3	14.5
55°	10.5	11.0	19.7	11.6	11.0
57.5°	8.1	8.7	10.5	8.7	8.1
60°	6.4	6.4	7.6	7.0	6.4
62.5°	4.6	4.6	5.2	4.6	4.6
65°	3.5	3.5	3.5	3.5	3.5
67.5°	1.7	2.3	2.3	2.3	2.3
70°	1.7	1.2	1.2	1.2	1.7
72.5°	1.2	0.6	0.6	0.6	0.6
75°	0.0	0.0	0.6	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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