

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: P773446

Luminaire Tested: LD6D90BD010-EU6DR3070959040-6LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773446
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: LD6D90BD010-EU6DR3070959040-6LBDP1LI
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: 11839.2 lumens
Efficiency: N/A
Efficacy: 119.7 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

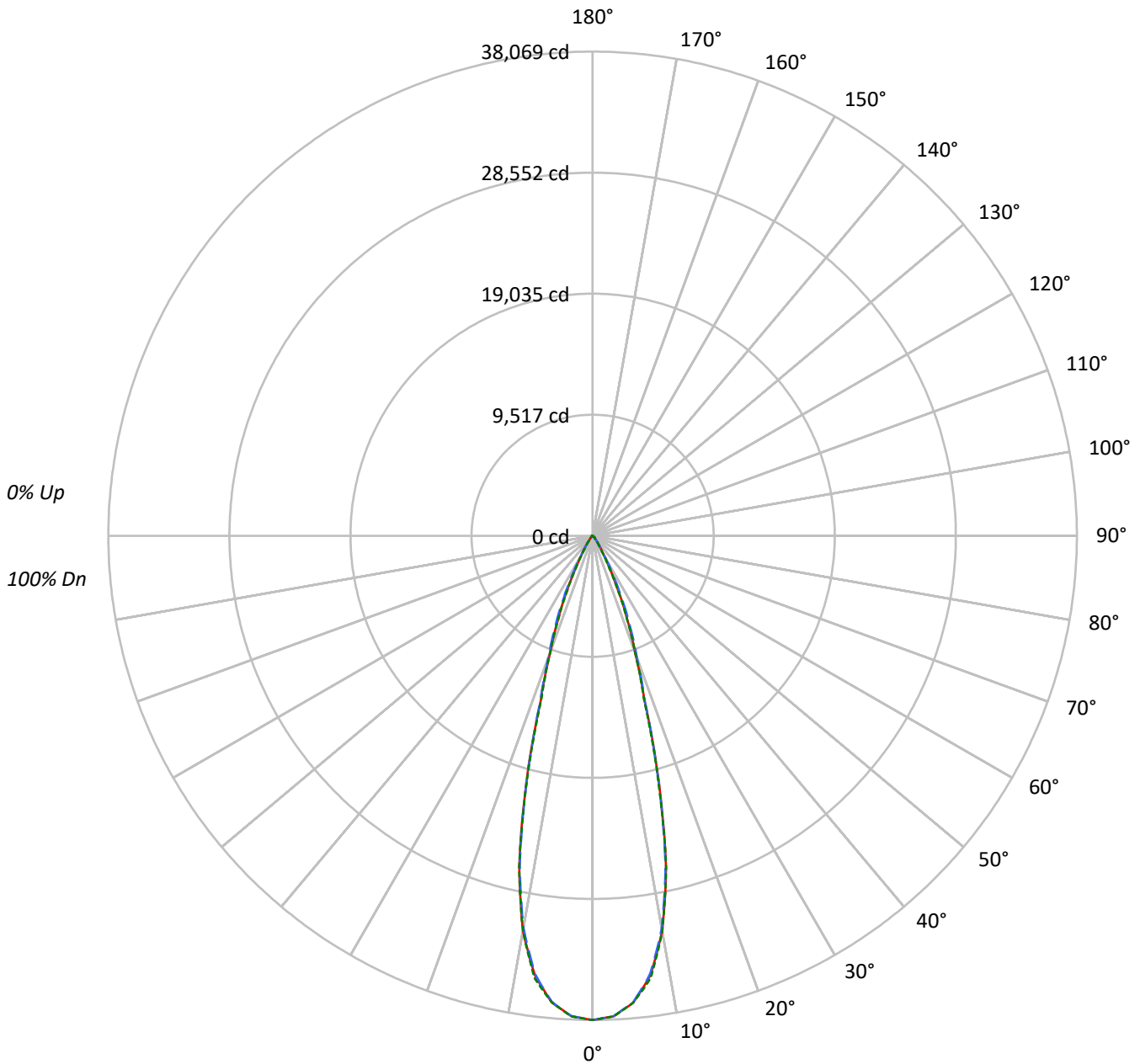
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2913900	2913900	2913900
5°	2830254	2826950	2830392
10°	2451429	2434143	2450846
15°	1599436	1590846	1582842
20°	795326	825163	794259
25°	400627	451774	392418
30°	160401	174772	139754
35°	74399	71259	59728
40°	32124	35672	30256
45°	22656	28123	22862
50°	7788	20482	8240
55°	4484	8474	4737
60°	3154	3720	3154
65°	2029	2029	2029
70°	1253	828	1253
75°	0	562	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 28123 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3347.6	28.3
10°-20°	5391.3	45.5
20°-30°	2329.7	19.7
30°-40°	531.0	4.5
40°-50°	182.3	1.5
50°-60°	44.5	0.4
60°-70°	11.6	0.1
70°-80°	1.2	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°	11068.6	93.5
0°-40°	11599.5	98.0
0°-60°	11826.4	99.9
0°-90°	11839.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11839.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	38069	38069	38069	38069	38069	
5°	36835	36800	36792	36869	36837	3350
15°	20184	19941	20075	20010	19974	5404
25°	4744	4923	5349	4798	4646	2271
35°	796	813	763	757	639	540
45°	209	260	260	260	211	149
55°	34	36	64	37	36	33
65°	11	11	11	11	11	11
75°	0	0	2	0	0	2
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°	38068.6	38068.6	38068.6	38068.6	38068.6
2.5°	37816.3	37790.1	37805.1	37823.8	37831.3
5°	36835.1	36799.6	36792.1	36868.7	36836.9
7.5°	34855.7	34805.3	34728.7	34902.5	35065.1
10°	31540.1	31484.0	31317.7	31399.9	31532.6
12.5°	26645.1	26463.8	26460.0	26721.7	26686.2
15°	20183.8	19940.8	20075.4	20010.0	19974.4
17.5°	13573.0	13479.5	13659.0	13604.8	13371.1
20°	9763.9	9788.2	10130.2	9958.3	9750.8
22.5°	7124.8	7212.6	7618.2	7175.2	7012.6
25°	4743.6	4923.1	5349.2	4797.8	4646.4
27.5°	2917.6	2999.8	3431.6	2880.2	2798.0
30°	1814.8	1773.7	1977.4	1697.1	1581.2
32.5°	1190.6	1138.2	1203.7	1080.3	986.9
35°	796.2	813.0	762.6	757.0	639.2
37.5°	497.2	571.9	504.6	538.3	411.2
40°	321.5	414.9	357.0	394.4	302.8
42.5°	263.5	319.6	293.4	312.1	269.1
45°	209.3	259.8	259.8	259.8	211.2
47.5°	115.9	173.8	222.4	177.6	123.4
50°	65.4	87.8	172.0	91.6	69.2
52.5°	44.9	50.5	117.7	52.3	46.7
55°	33.6	35.5	63.5	37.4	35.5
57.5°	26.2	28.0	33.6	28.0	26.2
60°	20.6	20.6	24.3	22.4	20.6
62.5°	15.0	15.0	16.8	15.0	15.0
65°	11.2	11.2	11.2	11.2	11.2
67.5°	5.6	7.5	7.5	7.5	7.5
70°	5.6	3.7	3.7	3.7	5.6
72.5°	3.7	1.9	1.9	1.9	1.9
75°	0.0	0.0	1.9	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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