

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: P773418

Luminaire Tested: LD6D90BD010-EU6DR3070959030-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773418
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-EU6DR3070959030-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8581.9 lumens
Efficiency: N/A
Efficacy: 86.8 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

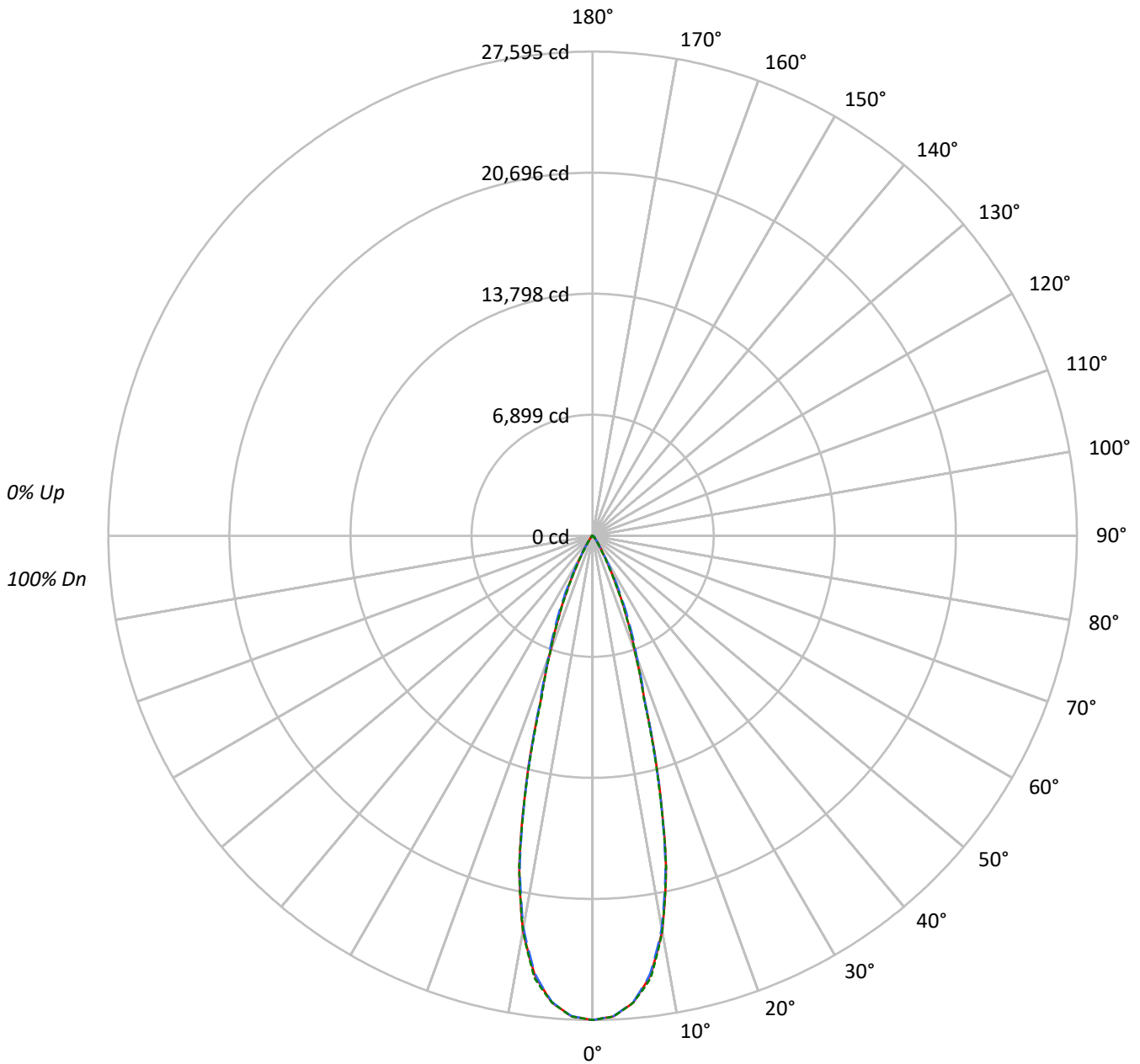


Downlight

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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°	2112207	2112207	2112207
5°	2051577	2049179	2051677
10°	1776977	1764440	1776550
15°	1159389	1153160	1147360
20°	576511	598138	575738
25°	290403	327479	284457
30°	116270	126691	101307
35°	53935	51655	43292
40°	23281	25859	21933
45°	16421	20383	16573
50°	5644	14837	5966
55°	3256	6152	3430
60°	2281	2694	2281
65°	1467	1467	1467
70°	918	604	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 20383 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2426.6	28.3
10°-20°	3908.0	45.5
20°-30°	1688.7	19.7
30°-40°	384.9	4.5
40°-50°	132.2	1.5
50°-60°	32.3	0.4
60°-70°	8.4	0.1
70°-80°	0.9	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°	8023.3	93.5
0°-40°	8408.2	98.0
0°-60°	8572.6	99.9
0°-90°	8581.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8581.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27595	27595	27595	27595	27595	
5°	26701	26675	26670	26725	26702	2429
15°	14631	14455	14552	14505	14479	3918
25°	3438	3569	3878	3478	3368	1646
35°	577	589	553	549	463	391
45°	152	188	188	188	153	108
55°	24	26	46	27	26	24
65°	8	8	8	8	8	8
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°	27594.9	27594.9	27594.9	27594.9	27594.9
2.5°	27412.0	27393.1	27403.9	27417.5	27422.9
5°	26700.8	26675.0	26669.6	26725.2	26702.1
7.5°	25266.0	25229.4	25173.9	25299.9	25417.8
10°	22862.6	22821.9	22701.3	22761.0	22857.1
12.5°	19314.3	19182.9	19180.2	19369.8	19344.1
15°	14630.7	14454.6	14552.1	14504.7	14478.9
17.5°	9838.7	9771.0	9901.0	9861.7	9692.4
20°	7077.6	7095.2	7343.1	7218.5	7068.1
22.5°	5164.6	5228.2	5522.2	5201.1	5083.3
25°	3438.5	3568.6	3877.5	3477.8	3368.1
27.5°	2114.9	2174.5	2487.4	2087.8	2028.2
30°	1315.5	1285.7	1433.4	1230.2	1146.2
32.5°	863.0	825.1	872.5	783.1	715.3
35°	577.2	589.3	552.8	548.7	463.3
37.5°	360.4	414.6	365.8	390.2	298.1
40°	233.0	300.8	258.8	285.9	219.5
42.5°	191.0	231.7	212.7	226.3	195.1
45°	151.7	188.3	188.3	188.3	153.1
47.5°	84.0	126.0	161.2	128.7	89.4
50°	47.4	63.7	124.6	66.4	50.1
52.5°	32.5	36.6	85.4	37.9	33.9
55°	24.4	25.7	46.1	27.1	25.7
57.5°	19.0	20.3	24.4	20.3	19.0
60°	14.9	14.9	17.6	16.3	14.9
62.5°	10.8	10.8	12.2	10.8	10.8
65°	8.1	8.1	8.1	8.1	8.1
67.5°	4.1	5.4	5.4	5.4	5.4
70°	4.1	2.7	2.7	2.7	4.1
72.5°	2.7	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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