

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: P771872

Luminaire Tested: LD6D80BD010-EU6DR3070959035-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771872
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: LD6D80BD010-EU6DR3070959035-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9537.9 lumens
Efficiency: N/A
Efficacy: 120.9 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): 78.9
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

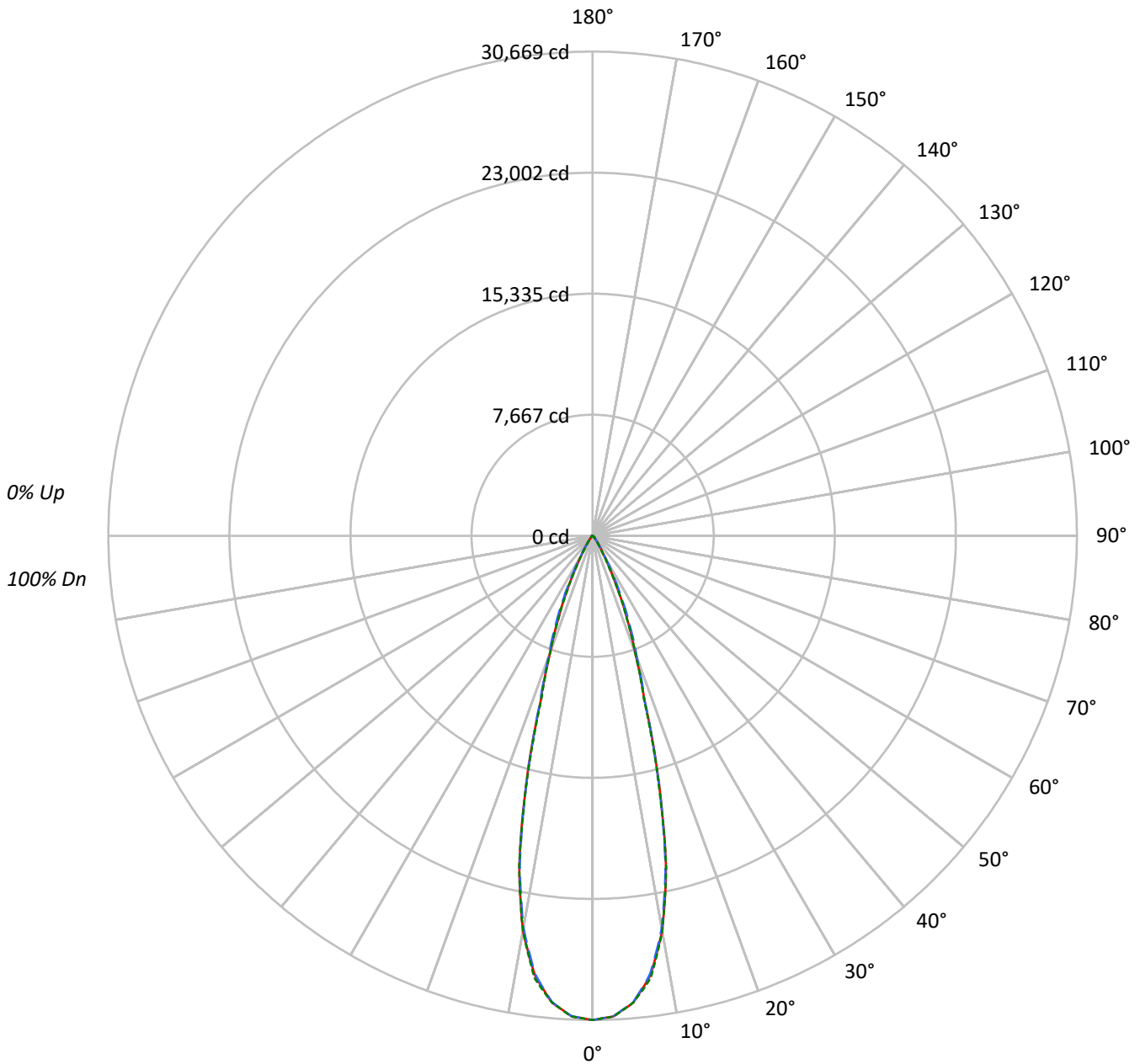


Downlight

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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	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°	2347509	2347509	2347509
5°	2280117	2277459	2280232
10°	1974933	1961005	1974459
15°	1288540	1281622	1275179
20°	640731	664769	639876
25°	322758	363956	316145
30°	129227	140806	112593
35°	59934	57402	48123
40°	25879	28737	24371
45°	18251	22656	18413
50°	6276	16493	6633
55°	3616	6833	3817
60°	2541	3001	2541
65°	1630	1630	1630
70°	1007	671	1007
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 22656 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2696.9	28.3
10°-20°	4343.3	45.5
20°-30°	1876.9	19.7
30°-40°	427.8	4.5
40°-50°	146.9	1.5
50°-60°	35.9	0.4
60°-70°	9.3	0.1
70°-80°	1.0	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°	8917.1	93.5
0°-40°	9344.9	98.0
0°-60°	9527.6	99.9
0°-90°	9537.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9537.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30669	30669	30669	30669	30669	
5°	29675	29647	29641	29702	29677	2699
15°	16260	16065	16173	16120	16092	4354
25°	3822	3966	4309	3865	3743	1829
35°	641	655	614	610	515	435
45°	169	209	209	209	170	120
55°	27	29	51	30	29	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	30669.0	30669.0	30669.0	30669.0	30669.0
2.5°	30465.8	30444.7	30456.7	30471.8	30477.8
5°	29675.2	29646.6	29640.6	29702.3	29676.7
7.5°	28080.7	28040.0	27978.3	28118.3	28249.3
10°	25409.5	25364.3	25230.3	25296.5	25403.4
12.5°	21465.9	21319.9	21316.8	21527.6	21499.0
15°	16260.5	16064.8	16173.2	16120.5	16091.9
17.5°	10934.7	10859.4	11004.0	10960.3	10772.1
20°	7866.0	7885.6	8161.1	8022.6	7855.5
22.5°	5739.9	5810.7	6137.4	5780.6	5649.6
25°	3821.6	3966.1	4309.4	3865.2	3743.3
27.5°	2350.5	2416.7	2764.5	2320.4	2254.1
30°	1462.1	1429.0	1593.1	1367.2	1273.9
32.5°	959.2	917.0	969.7	870.3	795.0
35°	641.4	655.0	614.3	609.8	515.0
37.5°	400.5	460.8	406.6	433.7	331.3
40°	259.0	334.3	287.6	317.7	243.9
42.5°	212.3	257.5	236.4	251.5	216.8
45°	168.6	209.3	209.3	209.3	170.1
47.5°	93.4	140.0	179.2	143.0	99.4
50°	52.7	70.8	138.5	73.8	55.7
52.5°	36.1	40.7	94.9	42.2	37.6
55°	27.1	28.6	51.2	30.1	28.6
57.5°	21.1	22.6	27.1	22.6	21.1
60°	16.6	16.6	19.6	18.1	16.6
62.5°	12.0	12.0	13.6	12.0	12.0
65°	9.0	9.0	9.0	9.0	9.0
67.5°	4.5	6.0	6.0	6.0	6.0
70°	4.5	3.0	3.0	3.0	4.5
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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