

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: P771898

Luminaire Tested: LD6D80BD010-EU6DR3070959050-6LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771898
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-EU6DR3070959050-6LBDP1H
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-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: 10055.1 lumens
Efficiency: N/A
Efficacy: 127.4 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

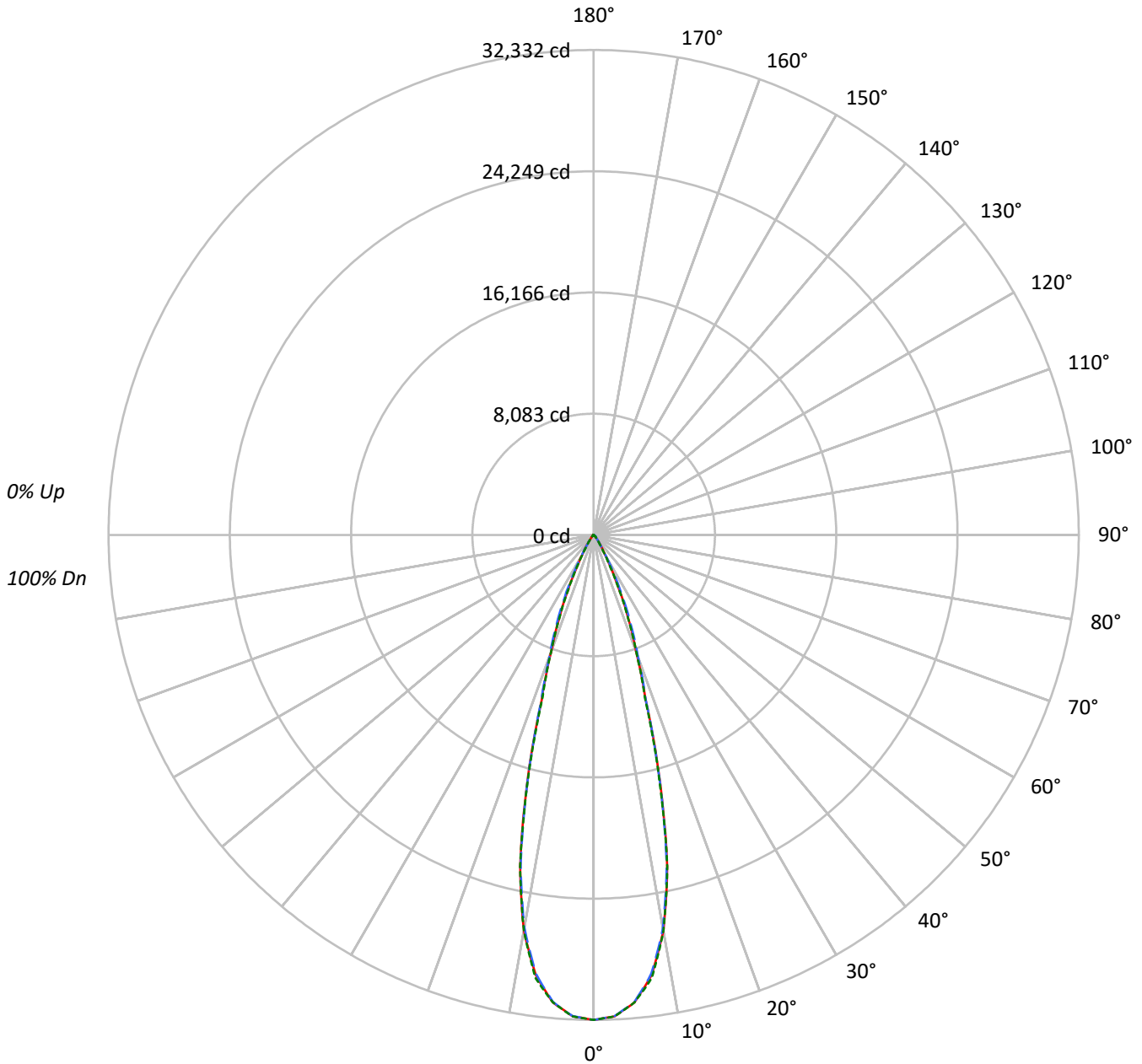


Downlight

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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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2474816	2474816	2474816
5°	2403769	2400964	2403892
10°	2082029	2067347	2081532
15°	1358417	1351126	1344327
20°	675480	700821	674576
25°	340258	383693	333290
30°	136236	148442	118692
35°	63186	60523	50730
40°	27278	30296	25700
45°	19247	23880	19420
50°	6621	17386	6990
55°	3817	7206	4030
60°	2679	3154	2679
65°	1721	1721	1721
70°	1074	716	1074
75°	0	473	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 23880 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2843.1	28.3
10°-20°	4578.9	45.5
20°-30°	1978.7	19.7
30°-40°	451.0	4.5
40°-50°	154.8	1.5
50°-60°	37.8	0.4
60°-70°	9.8	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°	9400.7	93.5
0°-40°	9851.6	98.0
0°-60°	10044.3	99.9
0°-90°	10055.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10055.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32332	32332	32332	32332	32332	
5°	31284	31254	31248	31313	31286	2845
15°	17142	16936	17050	16995	16964	4590
25°	4029	4181	4543	4075	3946	1928
35°	676	690	648	643	543	459
45°	178	221	221	221	179	126
55°	29	30	54	32	30	28
65°	10	10	10	10	10	9
75°	0	0	2	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°	32332.2	32332.2	32332.2	32332.2	32332.2
2.5°	32117.9	32095.7	32108.4	32124.2	32130.6
5°	31284.5	31254.3	31248.0	31313.1	31286.1
7.5°	29603.4	29560.6	29495.5	29643.1	29781.2
10°	26787.4	26739.8	26598.5	26668.3	26781.0
12.5°	22630.0	22476.0	22472.8	22695.1	22664.9
15°	17142.3	16936.0	17050.3	16994.7	16964.5
17.5°	11527.7	11448.3	11600.7	11554.7	11356.3
20°	8292.6	8313.2	8603.7	8457.7	8281.5
22.5°	6051.2	6125.8	6470.2	6094.0	5955.9
25°	4028.8	4181.2	4543.1	4074.9	3946.3
27.5°	2477.9	2547.8	2914.5	2446.2	2376.3
30°	1541.4	1506.4	1679.5	1441.4	1342.9
32.5°	1011.2	966.7	1022.3	917.5	838.1
35°	676.2	690.5	647.7	642.9	542.9
37.5°	422.2	485.7	428.6	457.2	349.2
40°	273.0	352.4	303.2	334.9	257.2
42.5°	223.8	271.4	249.2	265.1	228.6
45°	177.8	220.6	220.6	220.6	179.4
47.5°	98.4	147.6	188.9	150.8	104.8
50°	55.6	74.6	146.0	77.8	58.7
52.5°	38.1	42.9	100.0	44.4	39.7
55°	28.6	30.2	54.0	31.7	30.2
57.5°	22.2	23.8	28.6	23.8	22.2
60°	17.5	17.5	20.6	19.0	17.5
62.5°	12.7	12.7	14.3	12.7	12.7
65°	9.5	9.5	9.5	9.5	9.5
67.5°	4.8	6.3	6.3	6.3	6.3
70°	4.8	3.2	3.2	3.2	4.8
72.5°	3.2	1.6	1.6	1.6	1.6
75°	0.0	0.0	1.6	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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