

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P771888

Luminaire Tested: LD6D80BD010-EU6DR3070959040-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P771888
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-EU6DR3070959040-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9853.3 lumens
Efficiency: N/A
Efficacy: 124.9 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

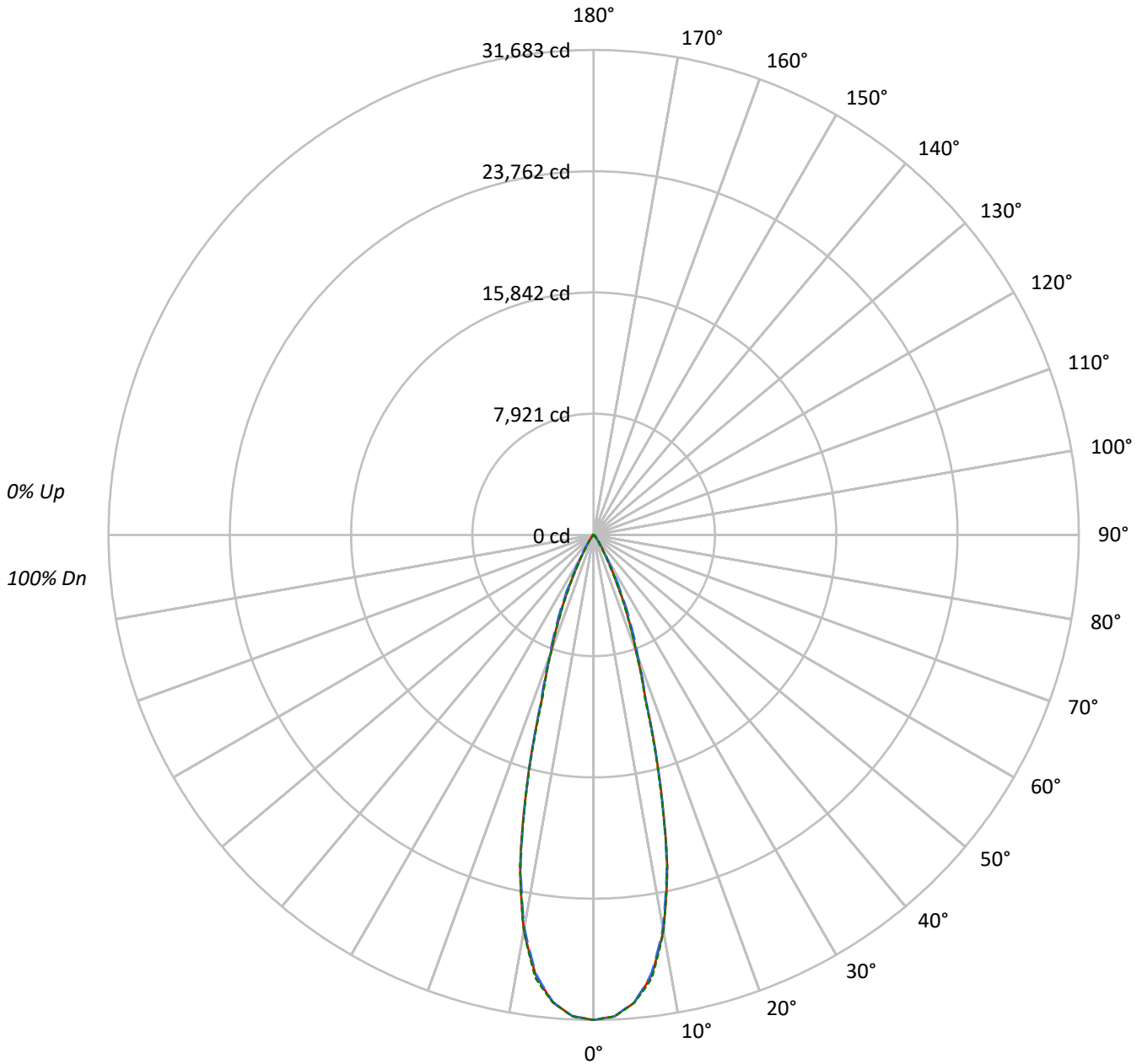


Downlight

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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						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°	2425132	2425132	2425132
5°	2355516	2352765	2355631
10°	2040229	2025842	2039747
15°	1331149	1324001	1317345
20°	661918	686754	661030
25°	333425	375991	326601
30°	133496	145464	116314
35°	61924	59308	49711
40°	26739	29686	25180
45°	18857	23403	19030
50°	6478	17040	6859
55°	3737	7059	3950
60°	2618	3092	2618
65°	1684	1684	1684
70°	1052	694	1052
75°	0	473	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23403 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2786.1	28.3
10°-20°	4487.0	45.5
20°-30°	1938.9	19.7
30°-40°	441.9	4.5
40°-50°	151.7	1.5
50°-60°	37.1	0.4
60°-70°	9.6	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°	9211.9	93.5
0°-40°	9653.9	98.0
0°-60°	9842.7	99.9
0°-90°	9853.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9853.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31683	31683	31683	31683	31683	
5°	30656	30627	30621	30684	30658	2788
15°	16798	16596	16708	16654	16624	4498
25°	3948	4097	4452	3993	3867	1890
35°	663	677	635	630	532	449
45°	174	216	216	216	176	124
55°	28	30	53	31	30	27
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°	31683.1	31683.1	31683.1	31683.1	31683.1
2.5°	31473.1	31451.4	31463.8	31479.4	31485.6
5°	30656.5	30626.9	30620.7	30684.5	30658.0
7.5°	29009.2	28967.2	28903.4	29048.1	29183.4
10°	26249.6	26203.0	26064.5	26133.0	26243.4
12.5°	22175.7	22024.8	22021.7	22239.5	22209.9
15°	16798.2	16596.0	16708.0	16653.6	16624.0
17.5°	11296.3	11218.5	11367.8	11322.7	11128.3
20°	8126.1	8146.3	8431.0	8287.9	8115.2
22.5°	5929.7	6002.8	6340.4	5971.7	5836.4
25°	3947.9	4097.3	4451.9	3993.1	3867.1
27.5°	2428.2	2496.6	2856.0	2397.1	2328.6
30°	1510.4	1476.2	1645.8	1412.4	1316.0
32.5°	990.9	947.3	1001.8	899.1	821.3
35°	662.7	676.7	634.7	630.0	532.0
37.5°	413.8	476.0	420.0	448.0	342.2
40°	267.6	345.3	297.1	328.2	252.0
42.5°	219.3	266.0	244.2	259.8	224.0
45°	174.2	216.2	216.2	216.2	175.8
47.5°	96.4	144.7	185.1	147.8	102.7
50°	54.4	73.1	143.1	76.2	57.6
52.5°	37.3	42.0	98.0	43.6	38.9
55°	28.0	29.6	52.9	31.1	29.6
57.5°	21.8	23.3	28.0	23.3	21.8
60°	17.1	17.1	20.2	18.7	17.1
62.5°	12.4	12.4	14.0	12.4	12.4
65°	9.3	9.3	9.3	9.3	9.3
67.5°	4.7	6.2	6.2	6.2	6.2
70°	4.7	3.1	3.1	3.1	4.7
72.5°	3.1	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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