

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: P772681

Luminaire Tested: LD6D85BD010-EU6DR3070959050-6LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772681
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: LD6D85BD010-EU6DR3070959050-6LBS1B
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10564.5 lumens
Efficiency: N/A
Efficacy: 120.5 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

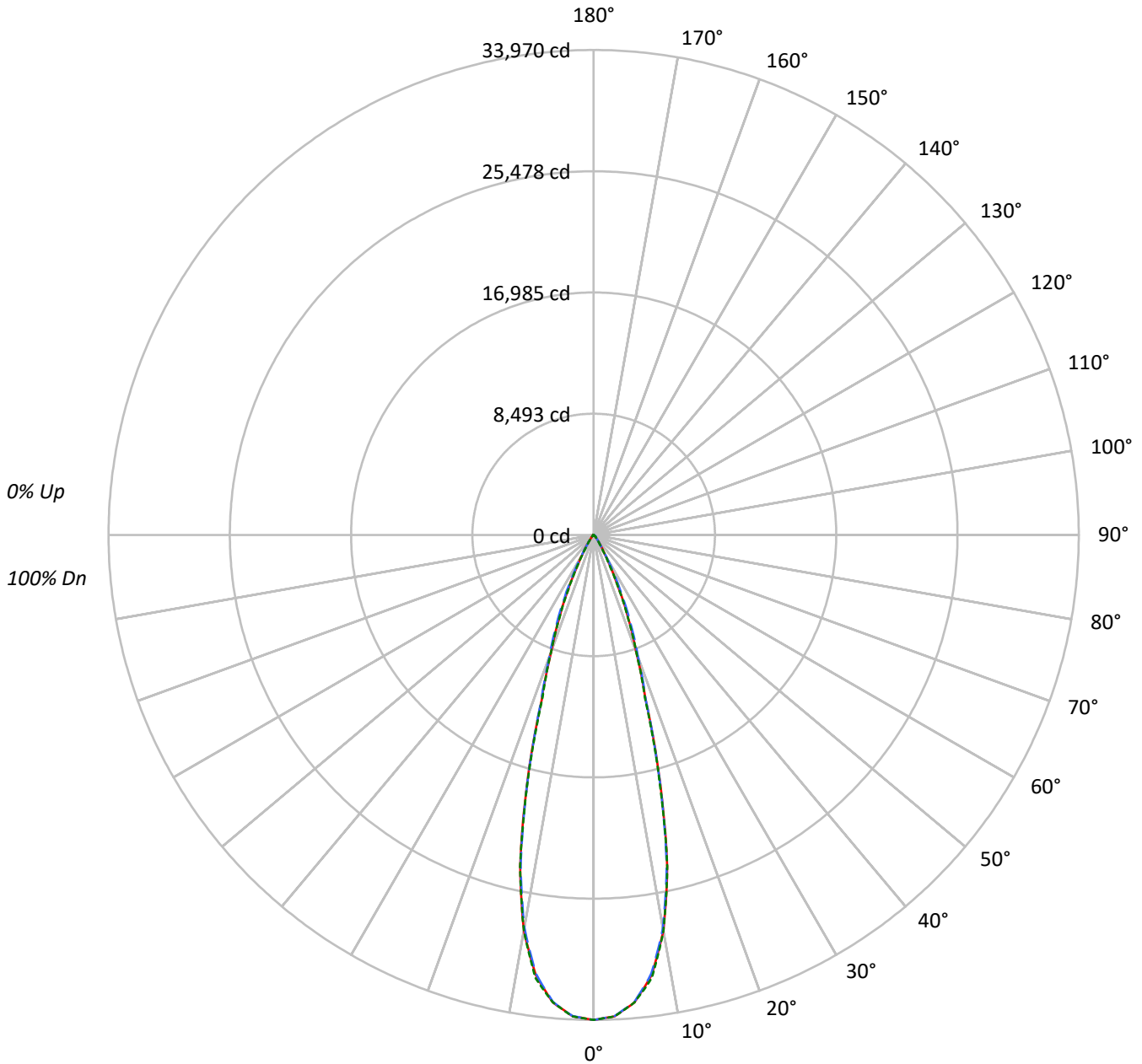
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2600172	2600172	2600172
5°	2525523	2522580	2525654
10°	2187493	2172065	2186972
15°	1427232	1419561	1412429
20°	709692	736320	708747
25°	357495	403135	350173
30°	143130	155955	124711
35°	66391	63587	53299
40°	28667	31835	26998
45°	20221	25092	20405
50°	6954	18267	7347
55°	4003	7567	4230
60°	2801	3322	2801
65°	1811	1811	1811
70°	1119	739	1119
75°	0	503	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 25092 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2987.1	28.3
10°-20°	4810.8	45.5
20°-30°	2078.9	19.7
30°-40°	473.8	4.5
40°-50°	162.7	1.5
50°-60°	39.7	0.4
60°-70°	10.3	0.1
70°-80°	1.1	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°	9876.8	93.5
0°-40°	10350.7	98.0
0°-60°	10553.1	99.9
0°-90°	10564.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10564.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33970	33970	33970	33970	33970	
5°	32869	32838	32831	32899	32871	2990
15°	18011	17794	17914	17856	17824	4823
25°	4233	4393	4773	4281	4146	2026
35°	710	726	680	676	570	482
45°	187	232	232	232	188	133
55°	30	32	57	33	32	29
65°	10	10	10	10	10	10
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°	33969.9	33969.9	33969.9	33969.9	33969.9
2.5°	33744.7	33721.4	33734.7	33751.4	33758.1
5°	32869.1	32837.5	32830.8	32899.2	32870.8
7.5°	31102.9	31057.9	30989.5	31144.6	31289.7
10°	28144.3	28094.2	27945.8	28019.2	28137.6
12.5°	23776.3	23614.5	23611.1	23844.6	23813.0
15°	18010.7	17793.8	17913.9	17855.5	17823.9
17.5°	12111.6	12028.2	12188.3	12140.0	11931.5
20°	8712.6	8734.3	9039.5	8886.1	8701.0
22.5°	6357.7	6436.1	6798.0	6402.7	6257.6
25°	4232.9	4393.0	4773.3	4281.3	4146.2
27.5°	2603.4	2676.8	3062.1	2570.1	2496.7
30°	1619.4	1582.7	1764.5	1514.4	1411.0
32.5°	1062.4	1015.7	1074.1	964.0	880.6
35°	710.5	725.5	680.5	675.5	570.4
37.5°	443.6	510.3	450.3	480.3	366.9
40°	286.9	370.3	318.6	351.9	270.2
42.5°	235.2	285.2	261.8	278.5	240.2
45°	186.8	231.8	231.8	231.8	188.5
47.5°	103.4	155.1	198.5	158.4	110.1
50°	58.4	78.4	153.4	81.7	61.7
52.5°	40.0	45.0	105.1	46.7	41.7
55°	30.0	31.7	56.7	33.4	31.7
57.5°	23.3	25.0	30.0	25.0	23.3
60°	18.3	18.3	21.7	20.0	18.3
62.5°	13.3	13.3	15.0	13.3	13.3
65°	10.0	10.0	10.0	10.0	10.0
67.5°	5.0	6.7	6.7	6.7	6.7
70°	5.0	3.3	3.3	3.3	5.0
72.5°	3.3	1.7	1.7	1.7	1.7
75°	0.0	0.0	1.7	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



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Scaled Data Report





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

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