

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: P772677

Luminaire Tested: LD6D85BD010-EU6DR3070959050-6LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772677
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-EU6DR3070959050-6LBDP1B
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 8618.1 lumens
Efficiency: N/A
Efficacy: 98.3 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

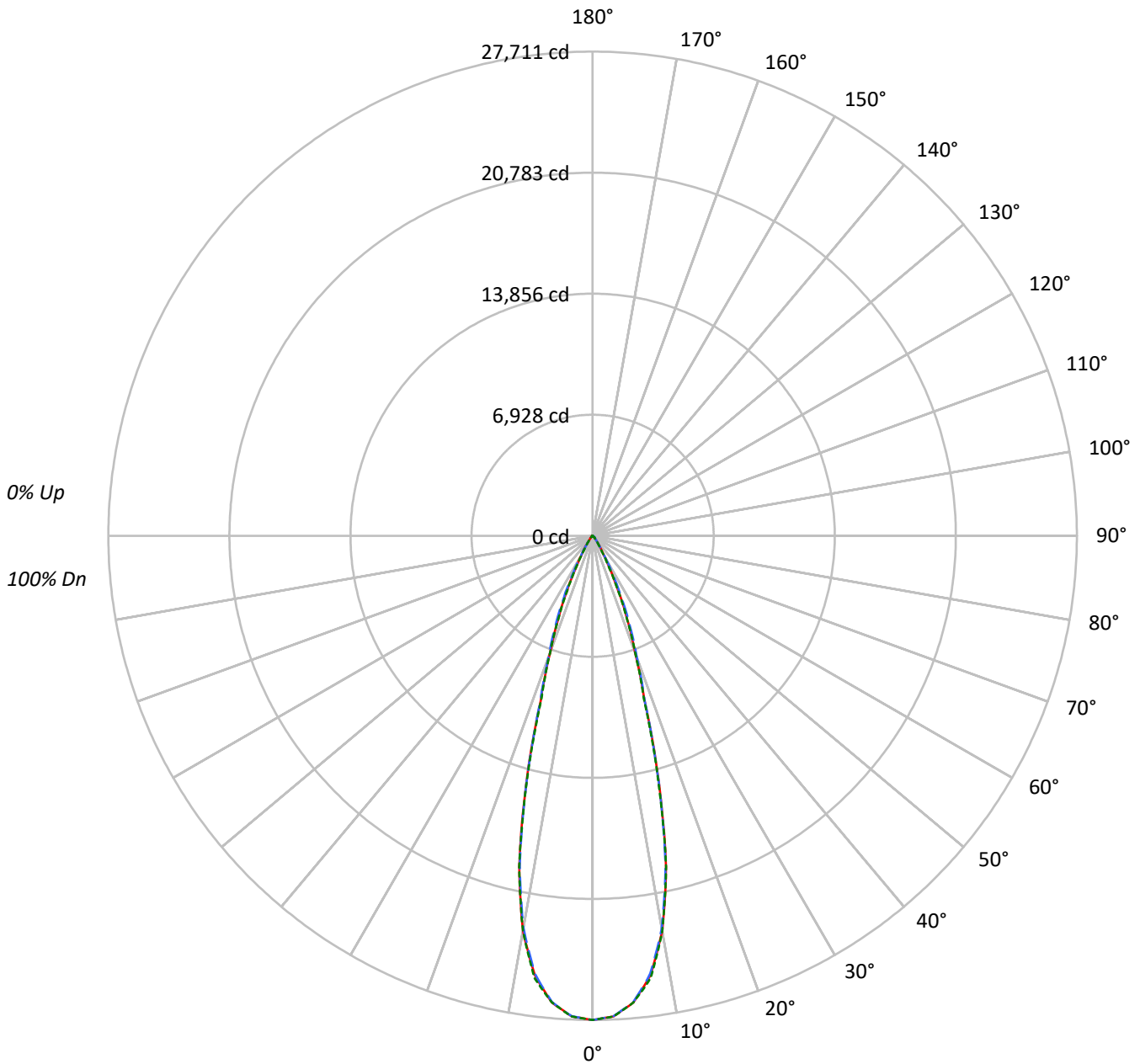
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	2121109	2121109	2121109
5°	2060221	2057816	2060328
10°	1784462	1771879	1784042
15°	1164270	1158018	1152201
20°	578939	600663	578165
25°	291628	328856	285657
30°	116765	127221	101731
35°	54159	51870	43479
40°	23381	25969	22022
45°	16497	20470	16638
50°	5668	14909	5990
55°	3270	6179	3456
60°	2296	2710	2296
65°	1485	1485	1485
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: 20470 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2436.8	28.3
10°-20°	3924.5	45.5
20°-30°	1695.9	19.7
30°-40°	386.5	4.5
40°-50°	132.7	1.5
50°-60°	32.4	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°	8057.1	93.5
0°-40°	8443.6	98.0
0°-60°	8608.8	99.9
0°-90°	8618.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8618.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	27711	27711	27711	27711	27711	
5°	26813	26787	26782	26838	26815	2439
15°	14692	14516	14613	14566	14540	3934
25°	3453	3584	3894	3492	3382	1653
35°	580	592	555	551	465	393
45°	152	189	189	189	154	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°	27711.2	27711.2	27711.2	27711.2	27711.2
2.5°	27527.6	27508.5	27519.4	27533.0	27538.5
5°	26813.3	26787.4	26782.0	26837.8	26814.7
7.5°	25372.5	25335.8	25280.0	25406.5	25524.9
10°	22958.9	22918.1	22797.0	22856.9	22953.5
12.5°	19395.7	19263.7	19261.0	19451.5	19425.6
15°	14692.3	14515.5	14613.4	14565.8	14540.0
17.5°	9880.2	9812.1	9942.7	9903.3	9733.2
20°	7107.4	7125.1	7374.1	7248.9	7097.9
22.5°	5186.3	5250.3	5545.5	5223.1	5104.7
25°	3453.0	3583.6	3893.8	3492.5	3382.3
27.5°	2123.8	2183.6	2497.9	2096.6	2036.7
30°	1321.1	1291.1	1439.4	1235.4	1151.0
32.5°	866.7	828.6	876.2	786.4	718.4
35°	579.6	591.8	555.1	551.0	465.3
37.5°	361.9	416.3	367.3	391.8	299.3
40°	234.0	302.0	259.9	287.1	220.4
42.5°	191.8	232.7	213.6	227.2	195.9
45°	152.4	189.1	189.1	189.1	153.7
47.5°	84.4	126.5	161.9	129.3	89.8
50°	47.6	63.9	125.2	66.7	50.3
52.5°	32.7	36.7	85.7	38.1	34.0
55°	24.5	25.9	46.3	27.2	25.9
57.5°	19.0	20.4	24.5	20.4	19.0
60°	15.0	15.0	17.7	16.3	15.0
62.5°	10.9	10.9	12.2	10.9	10.9
65°	8.2	8.2	8.2	8.2	8.2
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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