

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: P772658

Luminaire Tested: LD6D85BD010-EU6DR3070959035-6LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772658
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-EU6DR3070959035-6LBS1MW
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10159.7 lumens
Efficiency: N/A
Efficacy: 115.8 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

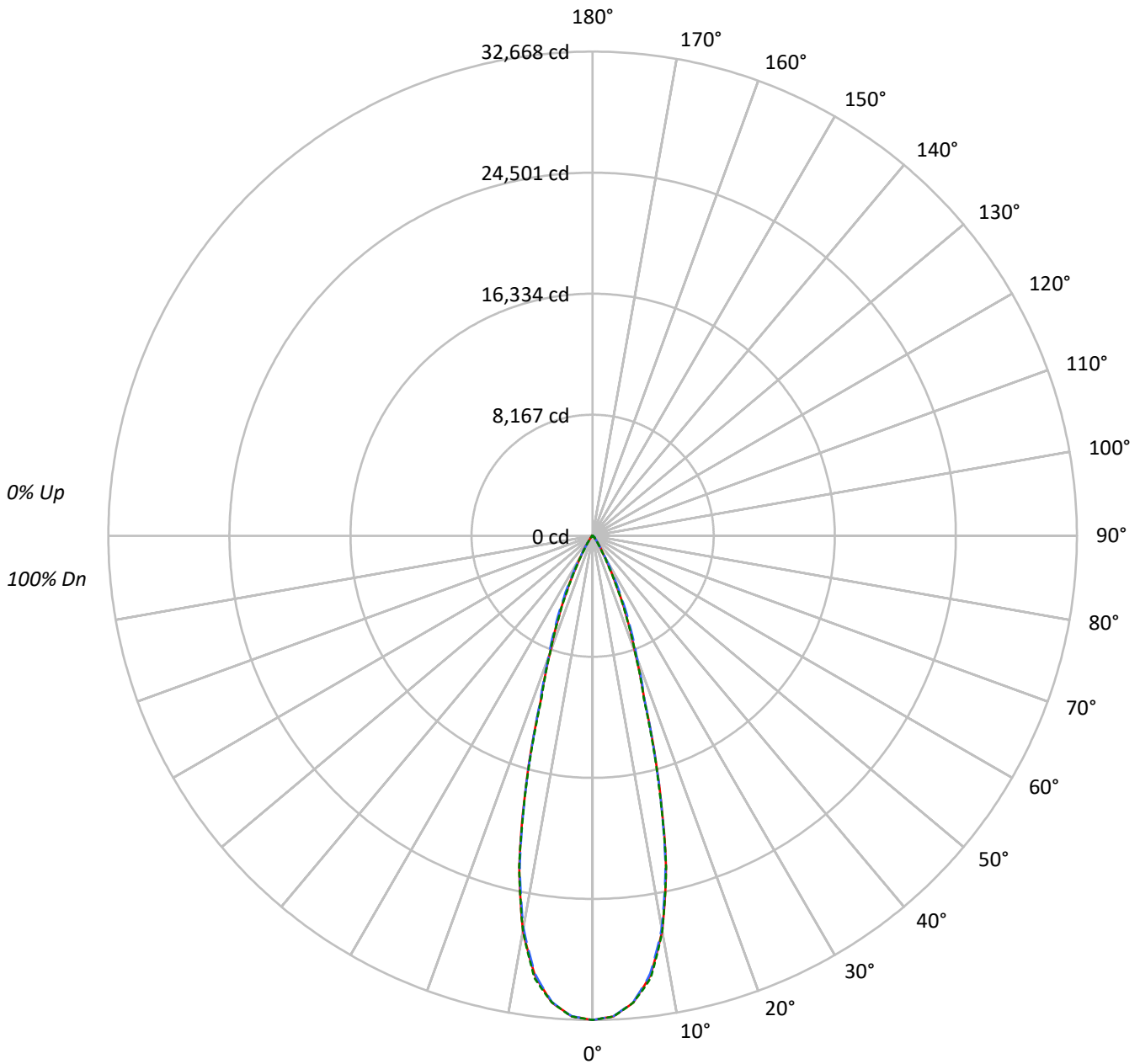
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2500550	2500550	2500550
5°	2428764	2425928	2428887
10°	2103675	2088838	2103178
15°	1372546	1365176	1358306
20°	682502	708111	681589
25°	343796	387688	336753
30°	137650	149980	119929
35°	63849	61149	51253
40°	27568	30606	25959
45°	19441	24129	19615
50°	6680	17576	7061
55°	3857	7273	4070
60°	2694	3200	2694
65°	1739	1739	1739
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: 24129 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2872.7	28.3
10°-20°	4626.5	45.5
20°-30°	1999.2	19.7
30°-40°	455.7	4.5
40°-50°	156.5	1.5
50°-60°	38.2	0.4
60°-70°	9.9	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°	9498.4	93.5
0°-40°	9954.1	98.0
0°-60°	10148.8	99.9
0°-90°	10159.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10159.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32668	32668	32668	32668	32668	
5°	31610	31579	31573	31639	31611	2875
15°	17321	17112	17228	17171	17141	4638
25°	4071	4225	4590	4117	3987	1949
35°	683	698	654	650	548	463
45°	180	223	223	223	181	127
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32668.4	32668.4	32668.4	32668.4	32668.4
2.5°	32451.8	32429.4	32442.2	32458.2	32464.7
5°	31609.8	31579.3	31572.9	31638.6	31611.4
7.5°	29911.2	29867.9	29802.2	29951.3	30090.9
10°	27065.9	27017.8	26875.0	26945.6	27059.5
12.5°	22865.3	22709.7	22706.5	22931.0	22900.6
15°	17320.6	17112.1	17227.6	17171.4	17140.9
17.5°	11647.6	11567.4	11721.3	11674.8	11474.3
20°	8378.8	8399.7	8693.2	8545.6	8367.6
22.5°	6114.1	6189.5	6537.5	6157.4	6017.9
25°	4070.7	4224.7	4590.4	4117.2	3987.3
27.5°	2503.7	2574.3	2944.8	2471.6	2401.0
30°	1557.4	1522.1	1696.9	1456.3	1356.9
32.5°	1021.7	976.8	1032.9	927.1	846.9
35°	683.3	697.7	654.4	649.6	548.5
37.5°	426.6	490.8	433.1	461.9	352.9
40°	275.9	356.1	306.3	338.4	259.8
42.5°	226.2	274.3	251.8	267.9	231.0
45°	179.6	222.9	222.9	222.9	181.2
47.5°	99.4	149.2	190.9	152.4	105.9
50°	56.1	75.4	147.6	78.6	59.3
52.5°	38.5	43.3	101.0	44.9	40.1
55°	28.9	30.5	54.5	32.1	30.5
57.5°	22.5	24.1	28.9	24.1	22.5
60°	17.6	17.6	20.9	19.2	17.6
62.5°	12.8	12.8	14.4	12.8	12.8
65°	9.6	9.6	9.6	9.6	9.6
67.5°	4.8	6.4	6.4	6.4	6.4
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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