

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: P772641

Luminaire Tested: LD6D85BD010-EU6DR3070959030-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P772641
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-EU6DR3070959030-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8963.3 lumens
Efficiency: N/A
Efficacy: 102.2 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

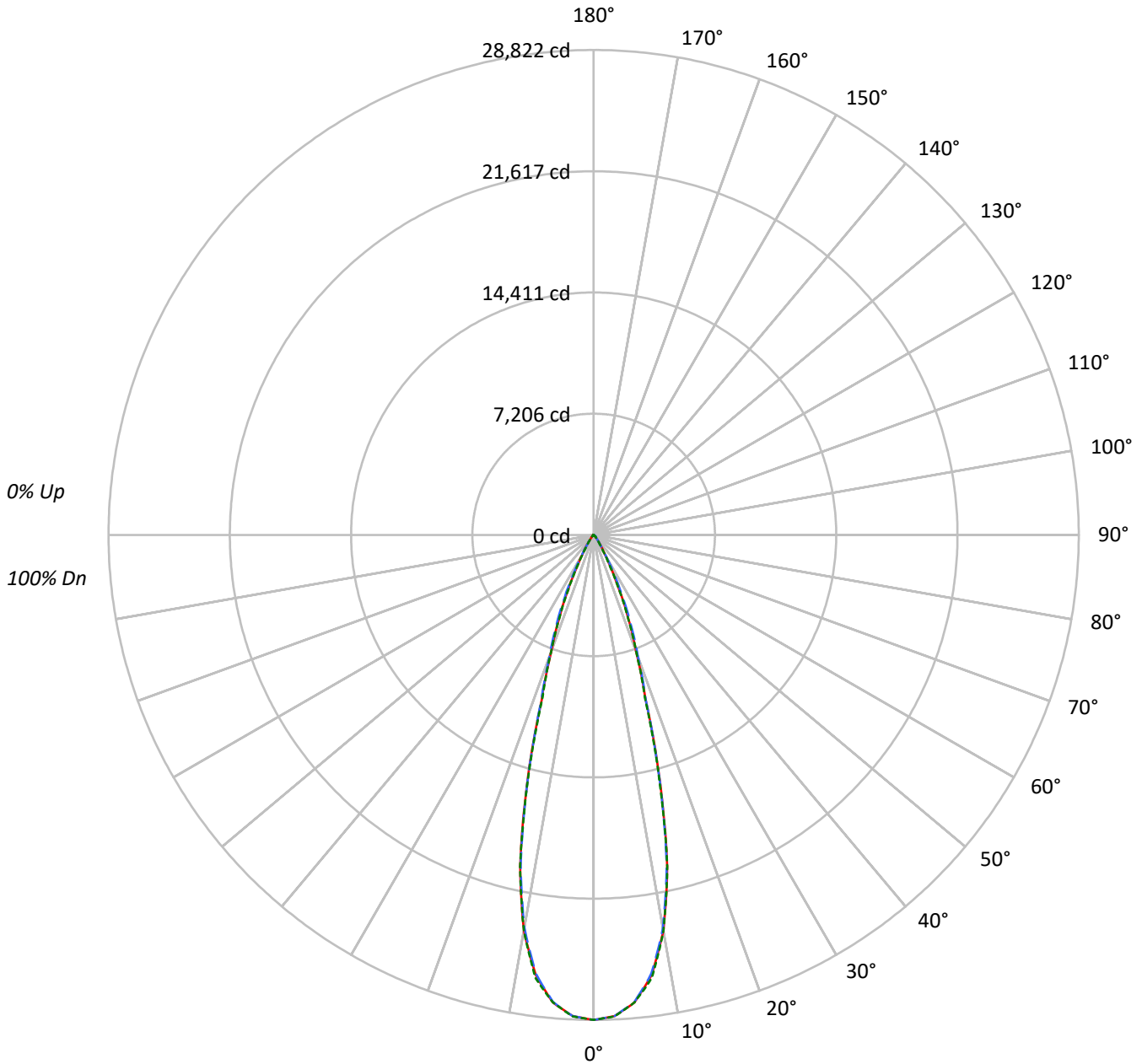
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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						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°	2206095	2206095	2206095
5°	2142765	2140261	2142873
10°	1855961	1842872	1855518
15°	1210921	1204415	1198361
20°	602137	624725	601331
25°	303316	342031	297100
30°	121441	132321	105805
35°	56327	53944	45217
40°	24321	27008	22902
45°	17157	21293	17309
50°	5894	15504	6240
55°	3403	6419	3590
60°	2388	2817	2388
65°	1539	1539	1539
70°	940	627	940
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21293 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2534.4	28.3
10°-20°	4081.7	45.5
20°-30°	1763.8	19.7
30°-40°	402.0	4.5
40°-50°	138.0	1.5
50°-60°	33.7	0.4
60°-70°	8.7	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°	8379.9	93.5
0°-40°	8781.9	98.0
0°-60°	8953.7	99.9
0°-90°	8963.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8963.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28822	28822	28822	28822	28822	
5°	27888	27861	27855	27913	27889	2537
15°	15281	15097	15199	15149	15122	4092
25°	3591	3727	4050	3632	3518	1719
35°	603	616	577	573	484	409
45°	158	197	197	197	160	112
55°	26	27	48	28	27	25
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°	28821.5	28821.5	28821.5	28821.5	28821.5
2.5°	28630.5	28610.7	28622.0	28636.1	28641.8
5°	27887.6	27860.7	27855.0	27913.1	27889.0
7.5°	26389.1	26350.9	26292.8	26424.4	26547.5
10°	23878.8	23836.3	23710.4	23772.7	23873.1
12.5°	20172.8	20035.5	20032.7	20230.8	20203.9
15°	15281.0	15097.0	15198.9	15149.4	15122.5
17.5°	10276.0	10205.3	10341.1	10300.1	10123.2
20°	7392.2	7410.6	7669.5	7539.3	7382.3
22.5°	5394.1	5460.6	5767.7	5432.3	5309.2
25°	3591.4	3727.2	4049.8	3632.4	3517.8
27.5°	2208.9	2271.1	2598.0	2180.6	2118.3
30°	1374.0	1342.9	1497.1	1284.9	1197.1
32.5°	901.4	861.8	911.3	817.9	747.1
35°	602.8	615.5	577.3	573.1	483.9
37.5°	376.4	433.0	382.1	407.5	311.3
40°	243.4	314.1	270.3	298.6	229.2
42.5°	199.5	242.0	222.2	236.3	203.8
45°	158.5	196.7	196.7	196.7	159.9
47.5°	87.7	131.6	168.4	134.4	93.4
50°	49.5	66.5	130.2	69.3	52.4
52.5°	34.0	38.2	89.1	39.6	35.4
55°	25.5	26.9	48.1	28.3	26.9
57.5°	19.8	21.2	25.5	21.2	19.8
60°	15.6	15.6	18.4	17.0	15.6
62.5°	11.3	11.3	12.7	11.3	11.3
65°	8.5	8.5	8.5	8.5	8.5
67.5°	4.2	5.7	5.7	5.7	5.7
70°	4.2	2.8	2.8	2.8	4.2
72.5°	2.8	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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