

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: P773395

Luminaire Tested: LD6D90BD010-EU6DR3070959024-6LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P773395
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: LD6D90BD010-EU6DR3070959024-6LBDP1MW
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8148.0 lumens
Efficiency: N/A
Efficacy: 82.4 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

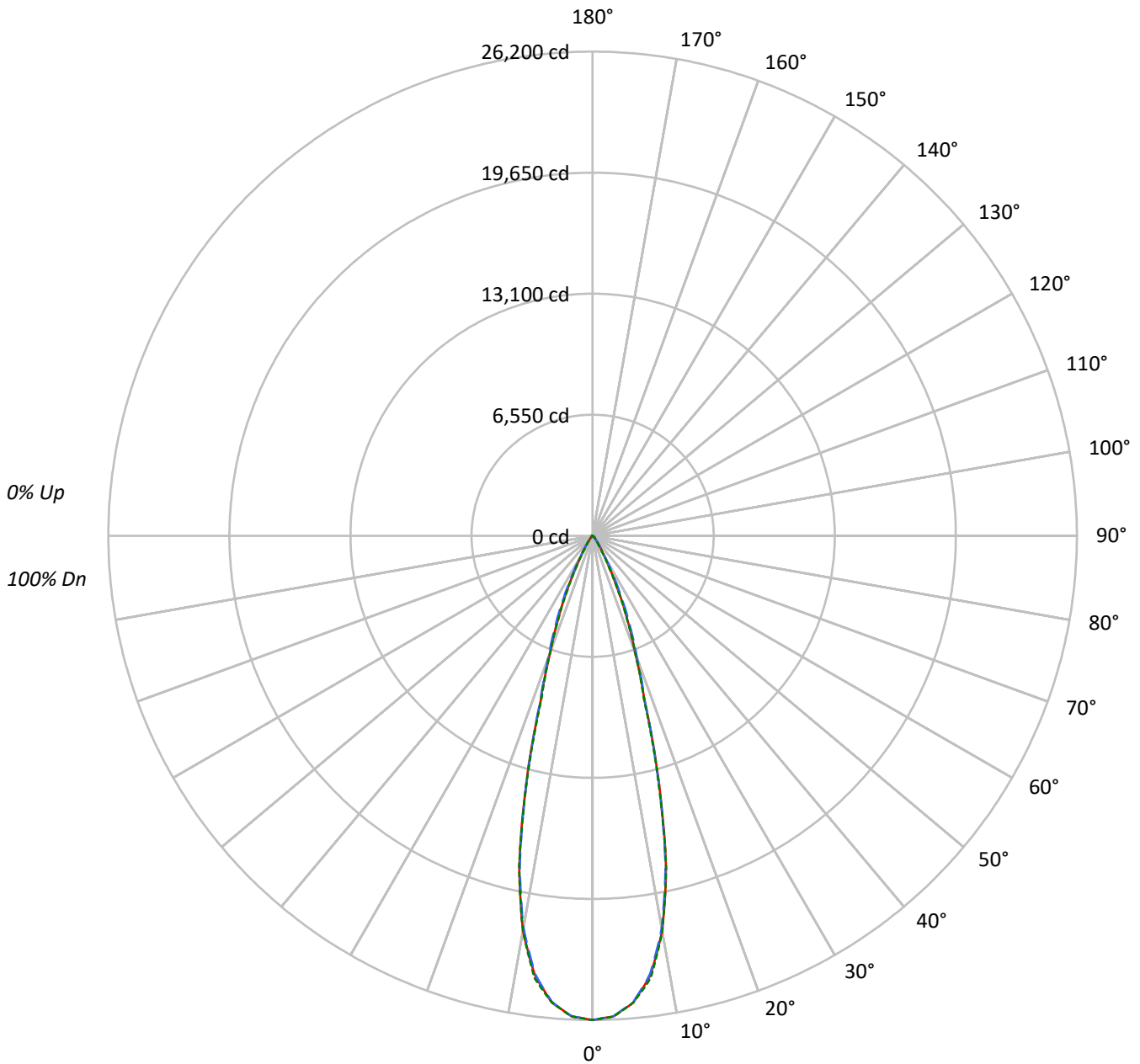
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	2005429	2005429	2005429
5°	1947864	1945590	1947956
10°	1687144	1675244	1686740
15°	1100780	1094869	1089361
20°	547367	567902	546633
25°	275724	310926	270074
30°	110392	120283	96180
35°	51206	49038	41105
40°	22102	24550	20823
45°	15599	19355	15739
50°	5359	14087	5668
55°	3096	5832	3256
60°	2159	2557	2159
65°	1395	1395	1395
70°	873	582	873
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 19355 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2303.9	28.3
10°-20°	3710.4	45.5
20°-30°	1603.4	19.7
30°-40°	365.4	4.5
40°-50°	125.5	1.5
50°-60°	30.6	0.4
60°-70°	7.9	0.1
70°-80°	0.8	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°	7617.7	93.5
0°-40°	7983.1	98.0
0°-60°	8139.3	99.9
0°-90°	8148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	26200	26200	26200	26200	26200	
5°	25351	25326	25321	25374	25352	2306
15°	13891	13724	13816	13771	13747	3720
25°	3265	3388	3682	3302	3198	1563
35°	548	560	525	521	440	372
45°	144	179	179	179	145	102
55°	23	24	44	26	24	23
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°	26199.9	26199.9	26199.9	26199.9	26199.9
2.5°	26026.3	26008.3	26018.6	26031.4	26036.6
5°	25351.0	25326.5	25321.4	25374.1	25352.2
7.5°	23988.7	23954.0	23901.3	24020.9	24132.8
10°	21706.8	21668.2	21553.7	21610.3	21701.6
12.5°	18337.9	18213.1	18210.6	18390.6	18366.2
15°	13891.1	13723.8	13816.5	13771.4	13747.0
17.5°	9341.3	9277.0	9400.5	9363.2	9202.4
20°	6719.8	6736.5	6971.9	6853.6	6710.8
22.5°	4903.5	4963.9	5243.1	4938.2	4826.3
25°	3264.7	3388.2	3681.5	3302.0	3197.8
27.5°	2008.0	2064.6	2361.7	1982.2	1925.6
30°	1249.0	1220.7	1360.9	1168.0	1088.2
32.5°	819.4	783.4	828.4	743.5	679.2
35°	548.0	559.6	524.8	521.0	439.9
37.5°	342.2	393.6	347.3	370.5	283.0
40°	221.2	285.6	245.7	271.4	208.4
42.5°	181.4	220.0	202.0	214.8	185.2
45°	144.1	178.8	178.8	178.8	145.4
47.5°	79.8	119.6	153.1	122.2	84.9
50°	45.0	60.5	118.3	63.0	47.6
52.5°	30.9	34.7	81.0	36.0	32.2
55°	23.2	24.4	43.7	25.7	24.4
57.5°	18.0	19.3	23.2	19.3	18.0
60°	14.1	14.1	16.7	15.4	14.1
62.5°	10.3	10.3	11.6	10.3	10.3
65°	7.7	7.7	7.7	7.7	7.7
67.5°	3.9	5.1	5.1	5.1	5.1
70°	3.9	2.6	2.6	2.6	3.9
72.5°	2.6	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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