

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: P754578

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754578
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR3070959030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7808.3 lumens
Efficiency: N/A
Efficacy: 89.0 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

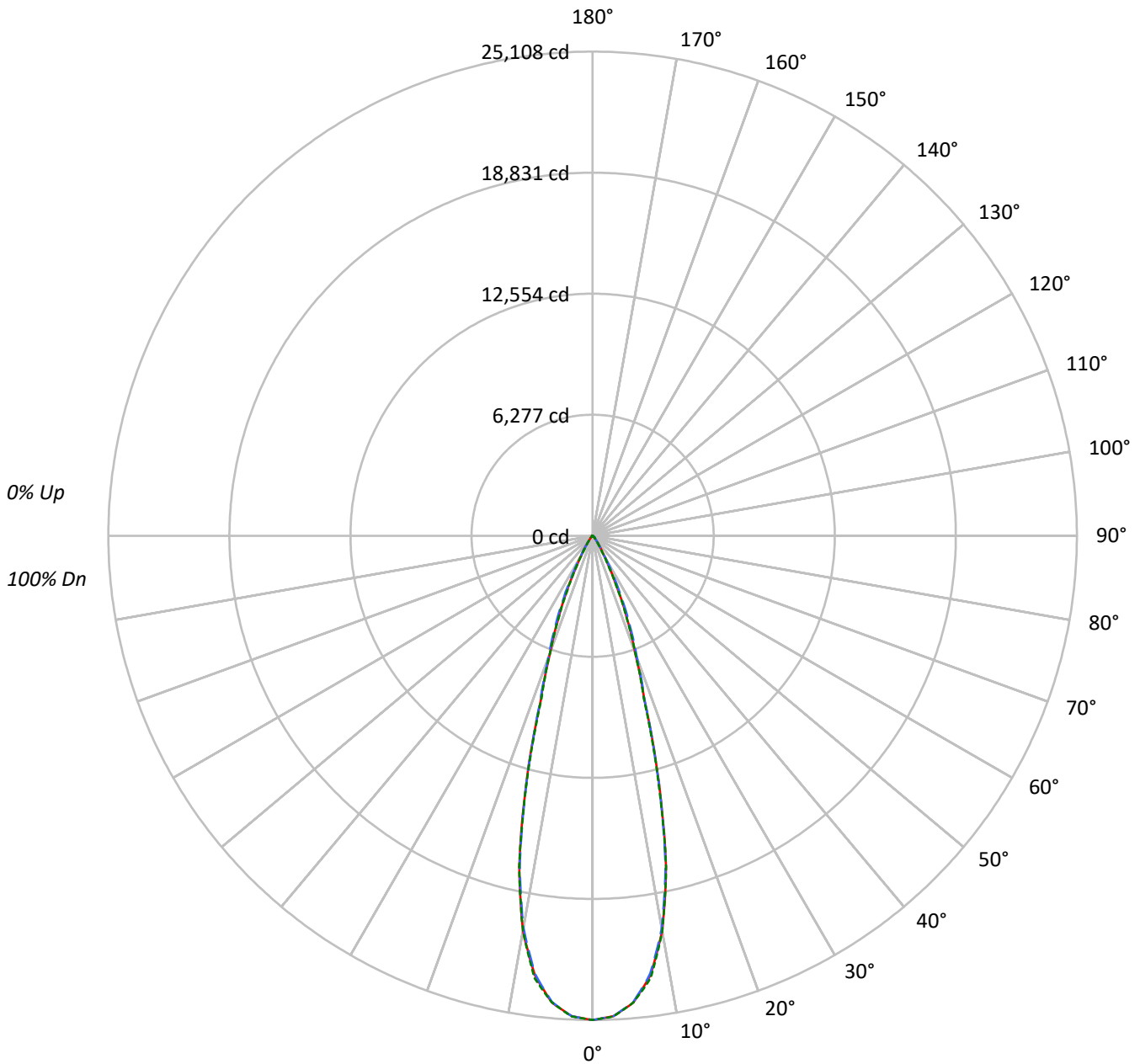
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1921821	1921821	1921821
5°	1866648	1864474	1866741
10°	1616803	1605401	1616415
15°	1054882	1049216	1043939
20°	524543	544222	523842
25°	264230	297962	258816
30°	105788	115271	92176
35°	49067	46992	39395
40°	21183	23521	19954
45°	14949	18543	15079
50°	5132	13504	5430
55°	2963	5592	3123
60°	2082	2449	2082
65°	1340	1340	1340
70°	828	559	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18543 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2207.8	28.3
10°-20°	3555.7	45.5
20°-30°	1536.5	19.7
30°-40°	350.2	4.5
40°-50°	120.2	1.5
50°-60°	29.4	0.4
60°-70°	7.6	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°	7300.1	93.5
0°-40°	7650.3	98.0
0°-60°	7799.9	99.9
0°-90°	7808.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7808.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25108	25108	25108	25108	25108	
5°	24294	24271	24266	24316	24295	2210
15°	13312	13152	13240	13197	13174	3564
25°	3129	3247	3528	3164	3064	1498
35°	525	536	503	499	422	356
45°	138	171	171	171	139	98
55°	22	23	42	25	23	22
65°	7	7	7	7	7	7
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°	25107.6	25107.6	25107.6	25107.6	25107.6
2.5°	24941.2	24923.9	24933.8	24946.1	24951.0
5°	24294.0	24270.6	24265.7	24316.2	24295.2
7.5°	22988.6	22955.3	22904.8	23019.4	23126.6
10°	20801.8	20764.8	20655.1	20709.3	20796.8
12.5°	17573.3	17453.8	17451.3	17623.9	17600.5
15°	13311.9	13151.7	13240.4	13197.3	13173.8
17.5°	8951.9	8890.2	9008.6	8972.8	8818.7
20°	6439.6	6455.6	6681.2	6567.8	6431.0
22.5°	4699.0	4757.0	5024.5	4732.3	4625.1
25°	3128.6	3246.9	3528.0	3164.3	3064.5
27.5°	1924.2	1978.5	2263.2	1899.6	1845.3
30°	1196.9	1169.8	1304.2	1119.3	1042.9
32.5°	785.2	750.7	793.9	712.5	650.9
35°	525.1	536.2	502.9	499.2	421.6
37.5°	327.9	377.2	332.8	355.0	271.2
40°	212.0	273.7	235.4	260.1	199.7
42.5°	173.8	210.8	193.5	205.9	177.5
45°	138.1	171.3	171.3	171.3	139.3
47.5°	76.4	114.6	146.7	117.1	81.4
50°	43.1	57.9	113.4	60.4	45.6
52.5°	29.6	33.3	77.7	34.5	30.8
55°	22.2	23.4	41.9	24.7	23.4
57.5°	17.3	18.5	22.2	18.5	17.3
60°	13.6	13.6	16.0	14.8	13.6
62.5°	9.9	9.9	11.1	9.9	9.9
65°	7.4	7.4	7.4	7.4	7.4
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.5	2.5	2.5	3.7
72.5°	2.5	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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