

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: P754588

Luminaire Tested: LD4D85BD010-EU4DR3070959035-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754588
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-EU4DR3070959035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7995.1 lumens
Efficiency: N/A
Efficacy: 91.2 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

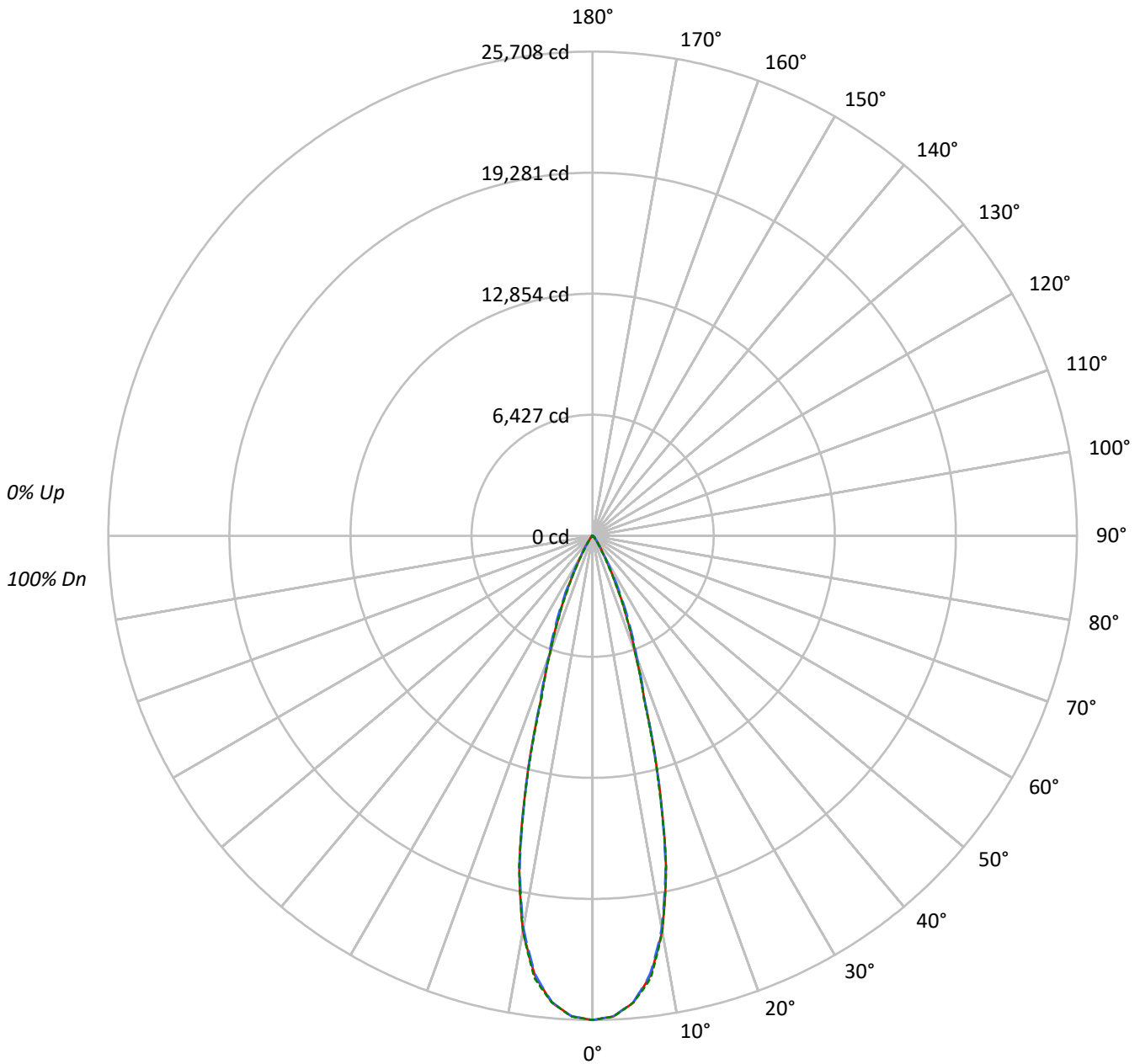
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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																			
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°	1967793	1967793	1967793
5°	1911298	1909069	1911398
10°	1655479	1643805	1655082
15°	1080113	1074313	1068916
20°	537095	557239	536370
25°	270547	305090	265007
30°	108324	118029	94377
35°	50244	48123	40339
40°	21693	24091	20434
45°	15306	18987	15436
50°	5263	13825	5561
55°	3029	5725	3203
60°	2128	2511	2128
65°	1376	1376	1376
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18987 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2260.6	28.3
10°-20°	3640.8	45.5
20°-30°	1573.3	19.7
30°-40°	358.6	4.5
40°-50°	123.1	1.5
50°-60°	30.1	0.4
60°-70°	7.8	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°	7474.7	93.5
0°-40°	7833.3	98.0
0°-60°	7986.5	99.9
0°-90°	7995.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7995.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25708	25708	25708	25708	25708	
5°	24875	24851	24846	24898	24876	2263
15°	13630	13466	13557	13513	13489	3650
25°	3203	3325	3612	3240	3138	1533
35°	538	549	515	511	432	365
45°	141	175	175	175	143	100
55°	23	24	43	25	24	22
65°	8	8	8	8	8	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°	25708.2	25708.2	25708.2	25708.2	25708.2
2.5°	25537.8	25520.1	25530.2	25542.8	25547.9
5°	24875.1	24851.2	24846.1	24897.9	24876.4
7.5°	23538.5	23504.4	23452.7	23570.0	23679.9
10°	21299.4	21261.5	21149.2	21204.7	21294.3
12.5°	17993.7	17871.3	17868.8	18045.5	18021.5
15°	13630.3	13466.3	13557.1	13513.0	13489.0
17.5°	9166.0	9102.9	9224.0	9187.4	9029.7
20°	6593.7	6610.1	6841.0	6724.9	6584.8
22.5°	4811.5	4870.8	5144.7	4845.5	4735.7
25°	3203.4	3324.6	3612.4	3240.0	3137.8
27.5°	1970.3	2025.8	2317.4	1945.0	1889.5
30°	1225.6	1197.8	1335.4	1146.1	1067.8
32.5°	804.0	768.7	812.8	729.5	666.4
35°	537.7	549.1	515.0	511.2	431.7
37.5°	335.7	386.2	340.8	363.5	277.7
40°	217.1	280.2	241.1	266.3	204.5
42.5°	178.0	215.8	198.2	210.8	181.8
45°	141.4	175.4	175.4	175.4	142.6
47.5°	78.3	117.4	150.2	119.9	83.3
50°	44.2	59.3	116.1	61.8	46.7
52.5°	30.3	34.1	79.5	35.3	31.6
55°	22.7	24.0	42.9	25.2	24.0
57.5°	17.7	18.9	22.7	18.9	17.7
60°	13.9	13.9	16.4	15.1	13.9
62.5°	10.1	10.1	11.4	10.1	10.1
65°	7.6	7.6	7.6	7.6	7.6
67.5°	3.8	5.0	5.0	5.0	5.0
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	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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