

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: P754606

Luminaire Tested: LD4D85BD010-EU4DR3070959040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754606
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-EU4DR3070959040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9249.9 lumens
Efficiency: N/A
Efficacy: 105.5 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

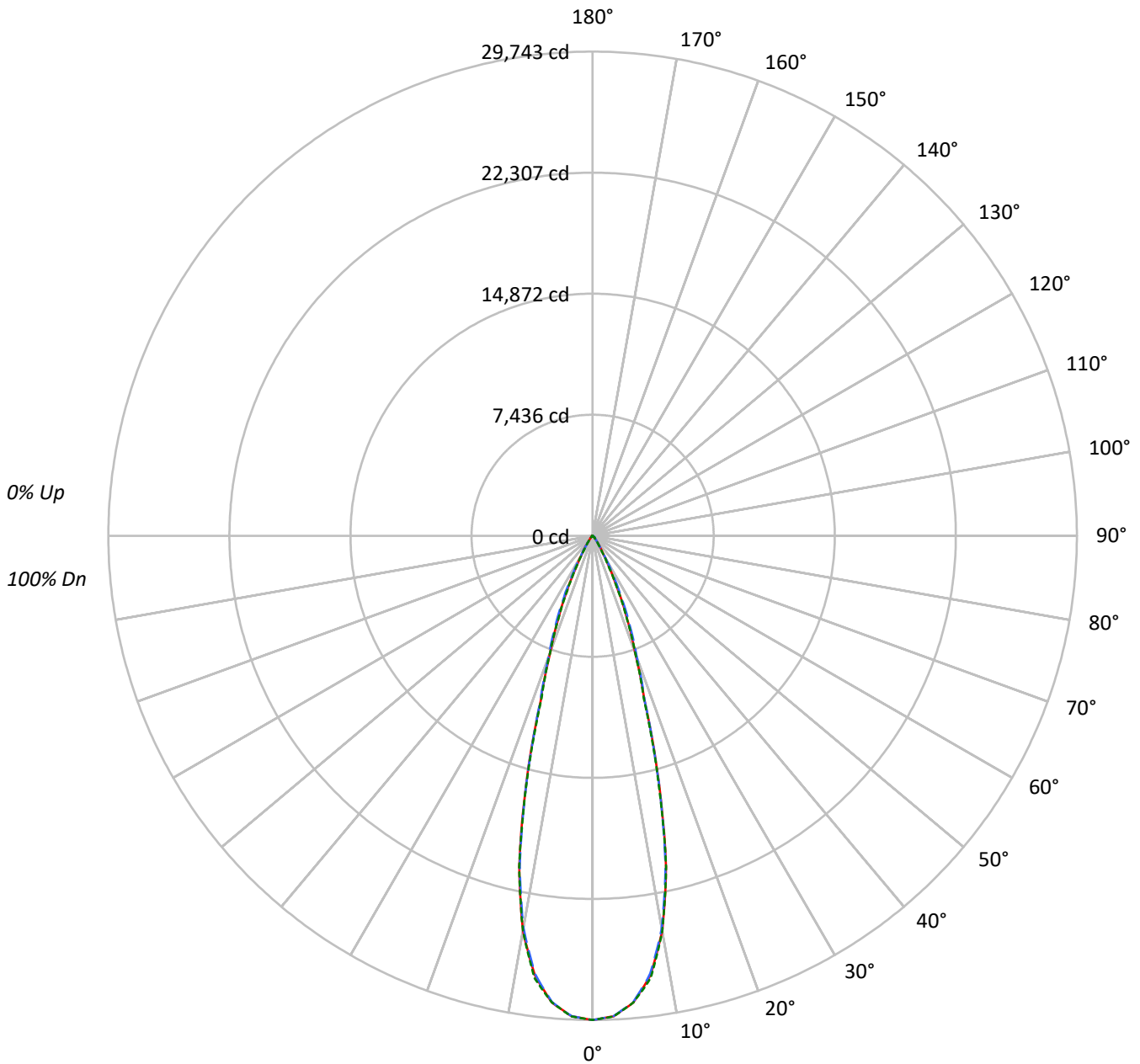
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2276607	2276607	2276607
5°	2211257	2208675	2211364
10°	1915280	1901779	1914829
15°	1249623	1242911	1236667
20°	621377	644698	620546
25°	313012	352968	306593
30°	125321	136554	109190
35°	58130	55673	46665
40°	25100	27868	23641
45°	17709	21974	17861
50°	6085	15992	6430
55°	3510	6619	3697
60°	2465	2909	2465
65°	1594	1594	1594
70°	985	649	985
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 21974 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2615.4	28.3
10°-20°	4212.2	45.5
20°-30°	1820.2	19.7
30°-40°	414.9	4.5
40°-50°	142.5	1.5
50°-60°	34.8	0.4
60°-70°	9.0	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°	8647.8	93.5
0°-40°	9062.6	98.0
0°-60°	9239.9	99.9
0°-90°	9249.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9249.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29743	29743	29743	29743	29743	
5°	28779	28751	28745	28805	28780	2618
15°	15769	15580	15685	15634	15606	4222
25°	3706	3846	4179	3748	3630	1774
35°	622	635	596	591	499	422
45°	164	203	203	203	165	116
55°	26	28	50	29	28	26
65°	9	9	9	9	9	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°	29742.7	29742.7	29742.7	29742.7	29742.7
2.5°	29545.6	29525.2	29536.8	29551.4	29557.3
5°	28779.0	28751.2	28745.4	28805.2	28780.4
7.5°	27232.5	27193.1	27133.2	27269.0	27396.1
10°	24642.0	24598.2	24468.3	24532.5	24636.2
12.5°	20817.6	20675.9	20673.0	20877.5	20849.7
15°	15769.4	15579.6	15684.7	15633.6	15605.9
17.5°	10604.5	10531.5	10671.6	10629.3	10446.8
20°	7628.4	7647.4	7914.7	7780.3	7618.2
22.5°	5566.5	5635.2	5952.1	5606.0	5478.9
25°	3706.2	3846.3	4179.3	3748.5	3630.2
27.5°	2279.5	2343.7	2681.1	2250.3	2186.0
30°	1417.9	1385.8	1545.0	1325.9	1235.4
32.5°	930.2	889.3	940.4	844.0	771.0
35°	622.1	635.2	595.8	591.4	499.4
37.5°	388.4	446.8	394.3	420.6	321.3
40°	251.2	324.2	278.9	308.1	236.6
42.5°	205.9	249.7	229.3	243.9	210.3
45°	163.6	203.0	203.0	203.0	165.0
47.5°	90.5	135.8	173.8	138.7	96.4
50°	51.1	68.6	134.3	71.6	54.0
52.5°	35.0	39.4	92.0	40.9	36.5
55°	26.3	27.7	49.6	29.2	27.7
57.5°	20.4	21.9	26.3	21.9	20.4
60°	16.1	16.1	19.0	17.5	16.1
62.5°	11.7	11.7	13.1	11.7	11.7
65°	8.8	8.8	8.8	8.8	8.8
67.5°	4.4	5.8	5.8	5.8	5.8
70°	4.4	2.9	2.9	2.9	4.4
72.5°	2.9	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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