

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: P754618

Luminaire Tested: LD4D85BD010-EU4DR3070959050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754618
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-EU4DR3070959050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8872.3 lumens
Efficiency: N/A
Efficacy: 101.2 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

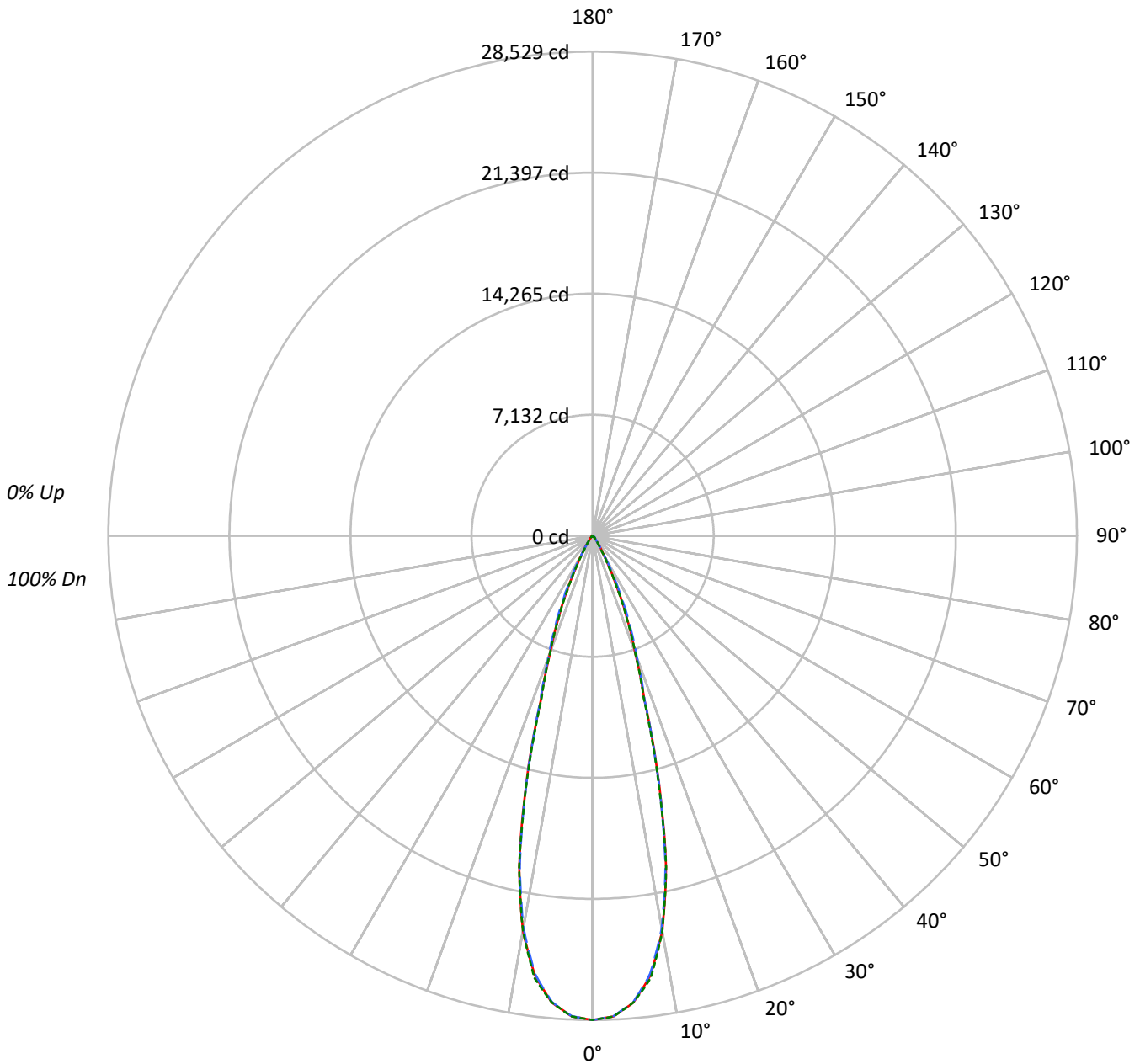
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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	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°	2183684	2183684	2183684
5°	2120998	2118524	2121105
10°	1837105	1824148	1836670
15°	1198622	1192180	1186189
20°	596020	618380	595222
25°	300234	338560	294085
30°	120203	130977	104736
35°	55757	53402	44759
40°	24071	26729	22672
45°	16984	21076	17136
50°	5835	15349	6168
55°	3363	6352	3550
60°	2358	2786	2358
65°	1521	1521	1521
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: 21076 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2508.7	28.3
10°-20°	4040.2	45.5
20°-30°	1745.9	19.7
30°-40°	397.9	4.5
40°-50°	136.6	1.5
50°-60°	33.4	0.4
60°-70°	8.6	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°	8294.8	93.5
0°-40°	8692.7	98.0
0°-60°	8862.7	99.9
0°-90°	8872.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8872.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28529	28529	28529	28529	28529	
5°	27604	27578	27572	27630	27606	2511
15°	15126	14944	15044	14996	14969	4050
25°	3555	3689	4009	3596	3482	1702
35°	597	609	572	567	479	405
45°	157	195	195	195	158	111
55°	25	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°	28528.7	28528.7	28528.7	28528.7	28528.7
2.5°	28339.7	28320.1	28331.3	28345.3	28350.9
5°	27604.3	27577.7	27572.1	27629.5	27605.7
7.5°	26121.0	26083.2	26025.8	26156.0	26277.9
10°	23636.2	23594.2	23469.5	23531.2	23630.6
12.5°	19967.9	19832.0	19829.2	20025.3	19998.7
15°	15125.8	14943.7	15044.5	14995.5	14968.9
17.5°	10171.6	10101.6	10236.1	10195.4	10020.4
20°	7317.1	7335.3	7591.6	7462.7	7307.3
22.5°	5339.3	5405.2	5709.1	5377.2	5255.3
25°	3554.9	3689.4	4008.7	3595.5	3482.1
27.5°	2186.4	2248.1	2571.6	2158.4	2096.8
30°	1360.0	1329.2	1481.9	1271.8	1185.0
32.5°	892.2	853.0	902.0	809.6	739.6
35°	596.7	609.3	571.5	567.3	479.0
37.5°	372.6	428.6	378.2	403.4	308.1
40°	240.9	310.9	267.5	295.5	226.9
42.5°	197.5	239.5	219.9	233.9	201.7
45°	156.9	194.7	194.7	194.7	158.3
47.5°	86.8	130.3	166.7	133.1	92.4
50°	49.0	65.8	128.9	68.6	51.8
52.5°	33.6	37.8	88.2	39.2	35.0
55°	25.2	26.6	47.6	28.0	26.6
57.5°	19.6	21.0	25.2	21.0	19.6
60°	15.4	15.4	18.2	16.8	15.4
62.5°	11.2	11.2	12.6	11.2	11.2
65°	8.4	8.4	8.4	8.4	8.4
67.5°	4.2	5.6	5.6	5.6	5.6
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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