

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: P754580

Luminaire Tested: LD4D85BD010-EU4DR3070959030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754580
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-EU4DR3070959030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8744.6 lumens
Efficiency: N/A
Efficacy: 99.7 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

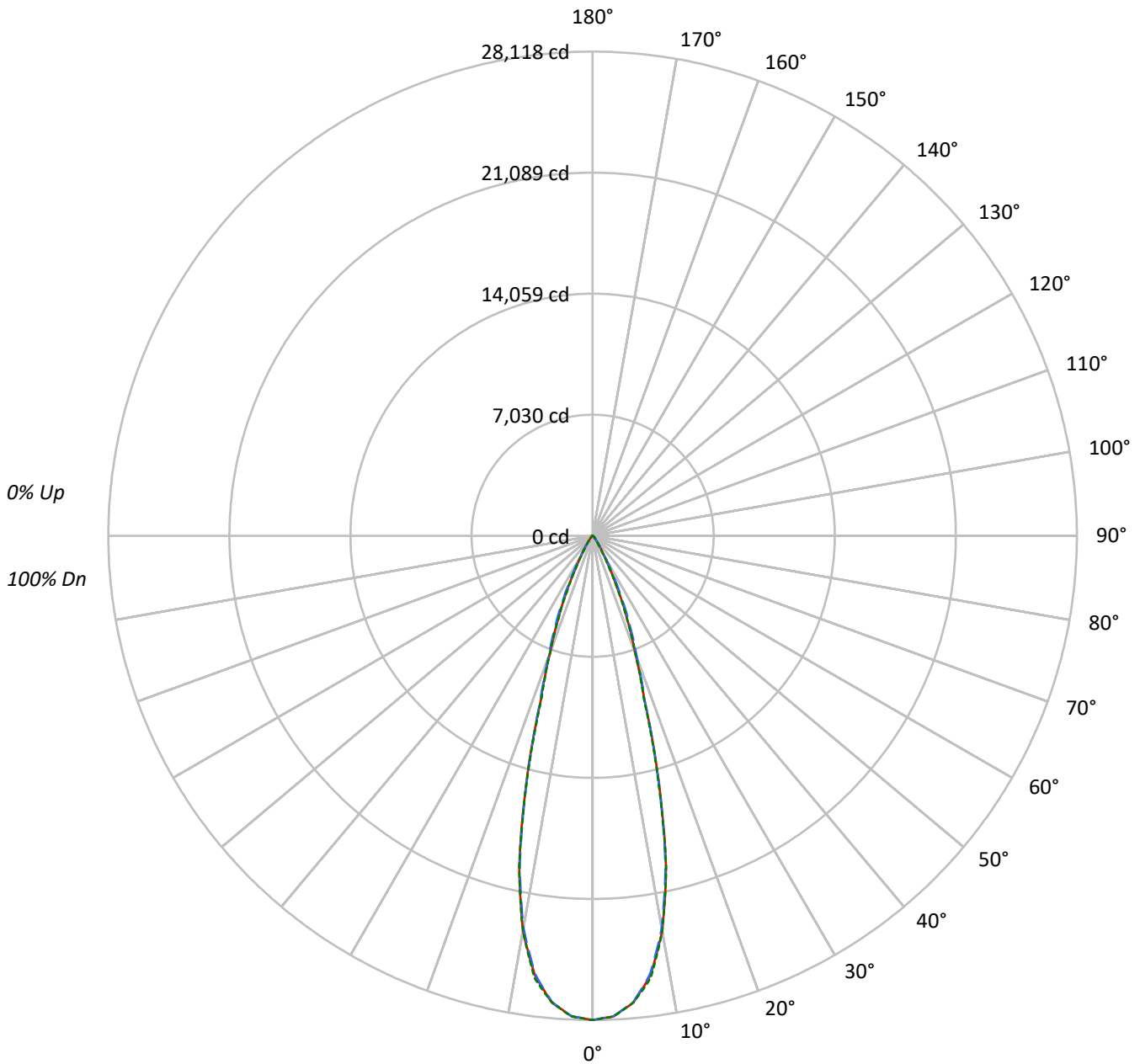
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	2152255	2152255	2152255
5°	2090471	2088035	2090579
10°	1810663	1797901	1810236
15°	1181371	1175023	1169120
20°	587443	609477	586653
25°	295910	333687	289846
30°	118480	129095	103224
35°	54953	52627	44114
40°	23721	26349	22342
45°	16735	20773	16887
50°	5752	15123	6085
55°	3310	6259	3496
60°	2327	2740	2327
65°	1503	1503	1503
70°	918	627	918
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 20773 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2472.6	28.3
10°-20°	3982.1	45.5
20°-30°	1720.8	19.7
30°-40°	392.2	4.5
40°-50°	134.7	1.5
50°-60°	32.9	0.4
60°-70°	8.5	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°	8175.4	93.5
0°-40°	8567.6	98.0
0°-60°	8735.2	99.9
0°-90°	8744.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8744.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28118	28118	28118	28118	28118	
5°	27207	27181	27175	27232	27208	2475
15°	14908	14729	14828	14780	14754	3992
25°	3504	3636	3951	3544	3432	1677
35°	588	600	563	559	472	399
45°	155	192	192	192	156	110
55°	25	26	47	28	26	24
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°	28118.1	28118.1	28118.1	28118.1	28118.1
2.5°	27931.8	27912.4	27923.5	27937.3	27942.8
5°	27207.0	27180.8	27175.3	27231.9	27208.4
7.5°	25745.0	25707.8	25651.2	25779.6	25899.7
10°	23296.0	23254.6	23131.8	23192.5	23290.5
12.5°	19680.5	19546.6	19543.8	19737.1	19710.9
15°	14908.1	14728.6	14828.0	14779.7	14753.5
17.5°	10025.2	9956.2	10088.7	10048.7	9876.1
20°	7211.8	7229.7	7482.3	7355.3	7202.1
22.5°	5262.5	5327.4	5626.9	5299.8	5179.7
25°	3503.7	3636.3	3951.0	3543.8	3431.9
27.5°	2155.0	2215.7	2534.6	2127.4	2066.6
30°	1340.5	1310.1	1460.6	1253.5	1167.9
32.5°	879.4	840.7	889.0	797.9	728.9
35°	588.1	600.5	563.2	559.1	472.1
37.5°	367.2	422.4	372.7	397.6	303.7
40°	237.4	306.5	263.7	291.3	223.6
42.5°	194.7	236.1	216.7	230.5	198.8
45°	154.6	191.9	191.9	191.9	156.0
47.5°	85.6	128.4	164.3	131.1	91.1
50°	48.3	64.9	127.0	67.6	51.1
52.5°	33.1	37.3	87.0	38.7	34.5
55°	24.8	26.2	46.9	27.6	26.2
57.5°	19.3	20.7	24.8	20.7	19.3
60°	15.2	15.2	17.9	16.6	15.2
62.5°	11.0	11.0	12.4	11.0	11.0
65°	8.3	8.3	8.3	8.3	8.3
67.5°	4.1	5.5	5.5	5.5	5.5
70°	4.1	2.8	2.8	2.8	4.1
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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