

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: P755386

Luminaire Tested: LD4D90BD010-EU4DR3070959040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755386
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: LD4D90BD010-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: 9812.8 lumens
Efficiency: N/A
Efficacy: 99.2 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): 98.9
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

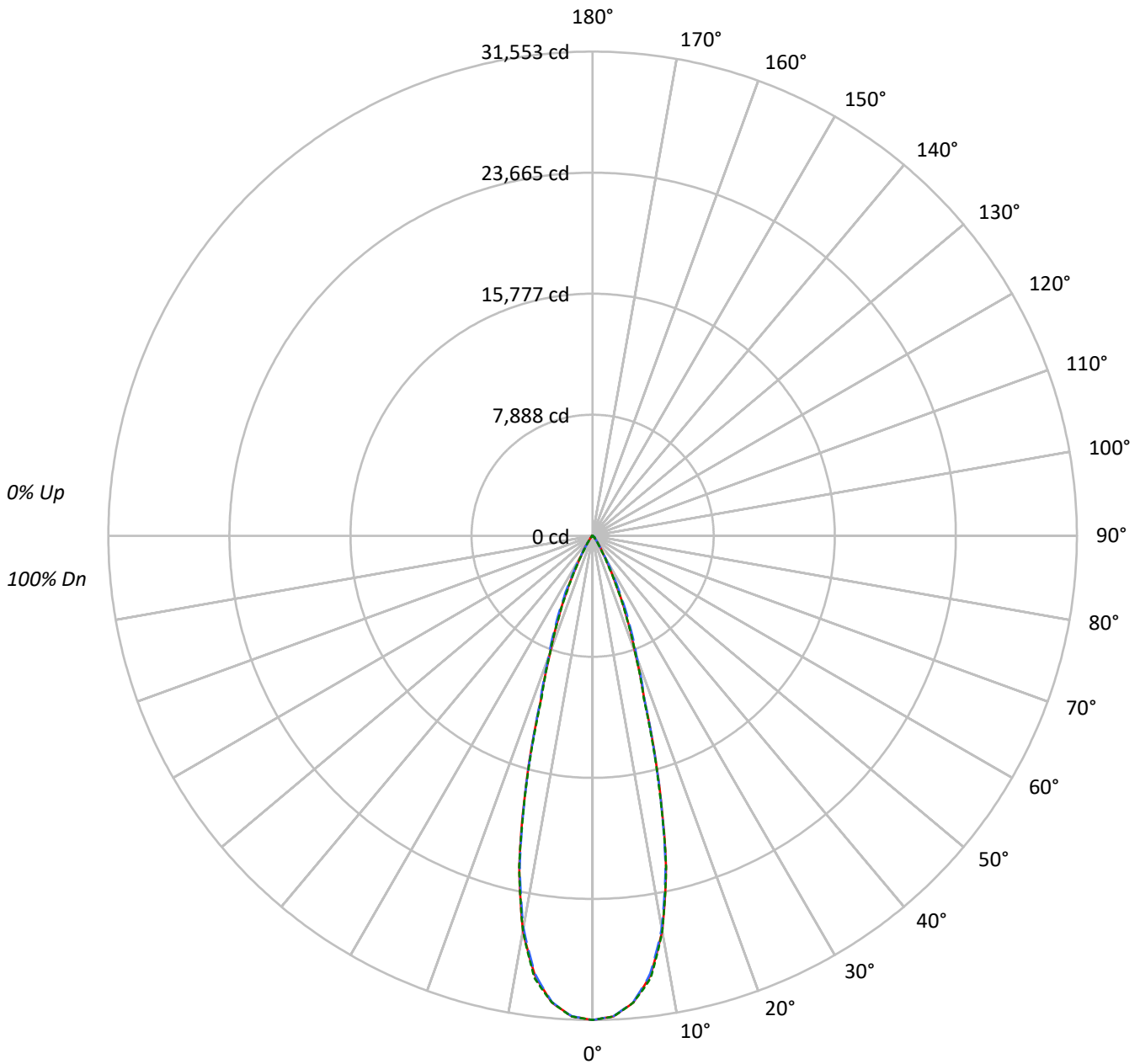


Downlight

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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°	2415166	2415166	2415166
5°	2345835	2343099	2345958
10°	2031851	2017518	2031369
15°	1325681	1318557	1311933
20°	659197	683935	658317
25°	332057	374445	325258
30°	132948	144863	115837
35°	61663	59065	49506
40°	26629	29566	25080
45°	18781	23306	18954
50°	6454	16969	6823
55°	3723	7033	3923
60°	2602	3077	2602
65°	1684	1684	1684
70°	1029	694	1029
75°	0	444	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 23306 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2774.6	28.3
10°-20°	4468.5	45.5
20°-30°	1931.0	19.7
30°-40°	440.1	4.5
40°-50°	151.1	1.5
50°-60°	36.9	0.4
60°-70°	9.6	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°	9174.1	93.5
0°-40°	9614.2	98.0
0°-60°	9802.2	99.9
0°-90°	9812.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9812.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31553	31553	31553	31553	31553	
5°	30530	30501	30495	30558	30532	2777
15°	16729	16528	16639	16585	16556	4479
25°	3932	4080	4434	3977	3851	1882
35°	660	674	632	627	530	448
45°	174	215	215	215	175	123
55°	28	29	53	31	29	27
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°	31552.9	31552.9	31552.9	31552.9	31552.9
2.5°	31343.8	31322.1	31334.5	31350.0	31356.2
5°	30530.5	30501.1	30494.9	30558.4	30532.1
7.5°	28890.0	28848.1	28784.6	28928.7	29063.5
10°	26141.8	26095.3	25957.4	26025.6	26135.6
12.5°	22084.6	21934.3	21931.2	22148.1	22118.7
15°	16729.2	16527.8	16639.3	16585.1	16555.7
17.5°	11249.9	11172.4	11321.1	11276.2	11082.6
20°	8092.7	8112.9	8396.4	8253.8	8081.9
22.5°	5905.3	5978.1	6314.3	5947.2	5812.4
25°	3931.7	4080.4	4433.6	3976.7	3851.2
27.5°	2418.2	2486.4	2844.2	2387.2	2319.1
30°	1504.2	1470.1	1639.0	1406.6	1310.6
32.5°	986.8	943.4	997.6	895.4	817.9
35°	659.9	673.9	632.1	627.4	529.8
37.5°	412.1	474.0	418.3	446.2	340.8
40°	266.5	343.9	295.9	326.9	251.0
42.5°	218.4	264.9	243.2	258.7	223.1
45°	173.5	215.3	215.3	215.3	175.1
47.5°	96.0	144.1	184.3	147.2	102.2
50°	54.2	72.8	142.5	75.9	57.3
52.5°	37.2	41.8	97.6	43.4	38.7
55°	27.9	29.4	52.7	31.0	29.4
57.5°	21.7	23.2	27.9	23.2	21.7
60°	17.0	17.0	20.1	18.6	17.0
62.5°	12.4	12.4	13.9	12.4	12.4
65°	9.3	9.3	9.3	9.3	9.3
67.5°	4.6	6.2	6.2	6.2	6.2
70°	4.6	3.1	3.1	3.1	4.6
72.5°	3.1	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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