

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: P742169

Luminaire Tested: LD4D10D010-EU4DR300210IC9050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742169
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: LD4D10D010-EU4DR300210IC9050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1032.6 lumens
Efficiency: N/A
Efficacy: 88.3 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): 11.7
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

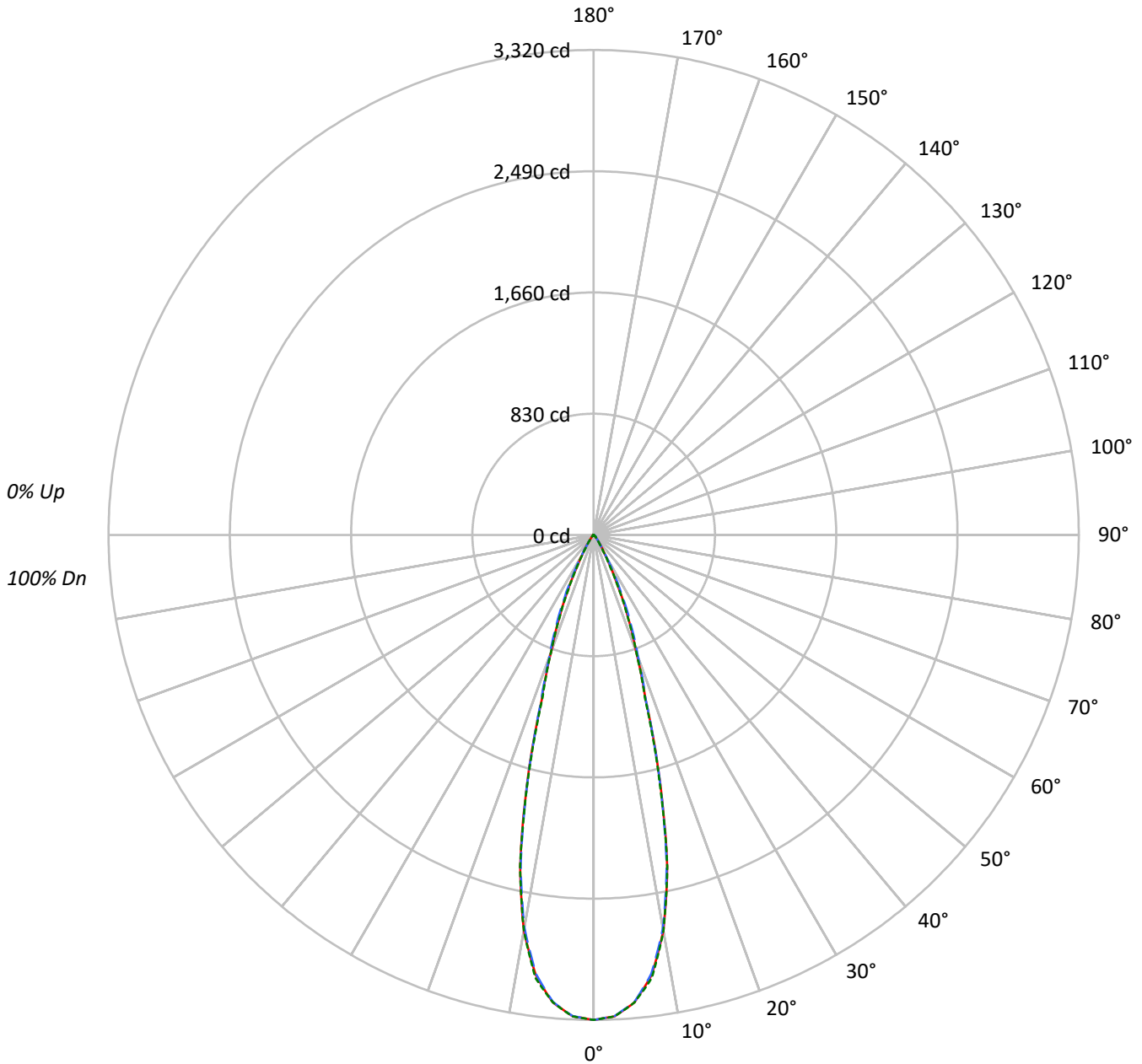


Downlight



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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°	254139	254139	254139
5°	246843	246558	246858
10°	213804	212296	213757
15°	139492	138748	138050
20°	69368	71966	69270
25°	34940	39407	34222
30°	13991	15246	12188
35°	6485	6214	5205
40°	2798	3108	2638
45°	1981	2446	1992
50°	679	1786	714
55°	387	747	414
60°	276	321	276
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2446 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.0	28.3
10°-20°	470.2	45.5
20°-30°	203.2	19.7
30°-40°	46.3	4.5
40°-50°	15.9	1.5
50°-60°	3.9	0.4
60°-70°	1.0	0.1
70°-80°	0.1	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°	965.4	93.5
0°-40°	1011.7	98.0
0°-60°	1031.5	99.9
0°-90°	1032.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1032.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3320	3320	3320	3320	3320	
5°	3213	3210	3209	3216	3213	292
15°	1760	1739	1751	1745	1742	471
25°	414	429	467	418	405	198
35°	69	71	66	66	56	47
45°	18	23	23	23	18	13
55°	3	3	6	3	3	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	3320.2	3320.2	3320.2	3320.2	3320.2
2.5°	3298.2	3295.9	3297.2	3298.8	3299.5
5°	3212.6	3209.5	3208.9	3215.5	3212.8
7.5°	3040.0	3035.6	3028.9	3044.0	3058.2
10°	2750.8	2745.9	2731.4	2738.6	2750.2
12.5°	2323.9	2308.1	2307.7	2330.5	2327.4
15°	1760.3	1739.1	1750.9	1745.2	1742.1
17.5°	1183.8	1175.6	1191.3	1186.5	1166.2
20°	851.6	853.7	883.5	868.5	850.4
22.5°	621.4	629.0	664.5	625.8	611.6
25°	413.7	429.4	466.6	418.4	405.2
27.5°	254.4	261.6	299.3	251.2	244.0
30°	158.3	154.7	172.5	148.0	137.9
32.5°	103.8	99.3	105.0	94.2	86.1
35°	69.4	70.9	66.5	66.0	55.7
37.5°	43.4	49.9	44.0	46.9	35.9
40°	28.0	36.2	31.1	34.4	26.4
42.5°	23.0	27.9	25.6	27.2	23.5
45°	18.3	22.6	22.6	22.6	18.4
47.5°	10.1	15.2	19.4	15.5	10.8
50°	5.7	7.7	15.0	8.0	6.0
52.5°	3.9	4.4	10.3	4.6	4.1
55°	2.9	3.1	5.6	3.3	3.1
57.5°	2.3	2.5	2.9	2.5	2.3
60°	1.8	1.8	2.1	1.9	1.8
62.5°	1.3	1.3	1.5	1.3	1.3
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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