

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: P742170

Luminaire Tested: LD4D10D010-EU4DR300210IC9050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742170
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-EU4DR300210IC9050-4LBS1H
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: 1101.3 lumens
Efficiency: N/A
Efficacy: 94.1 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

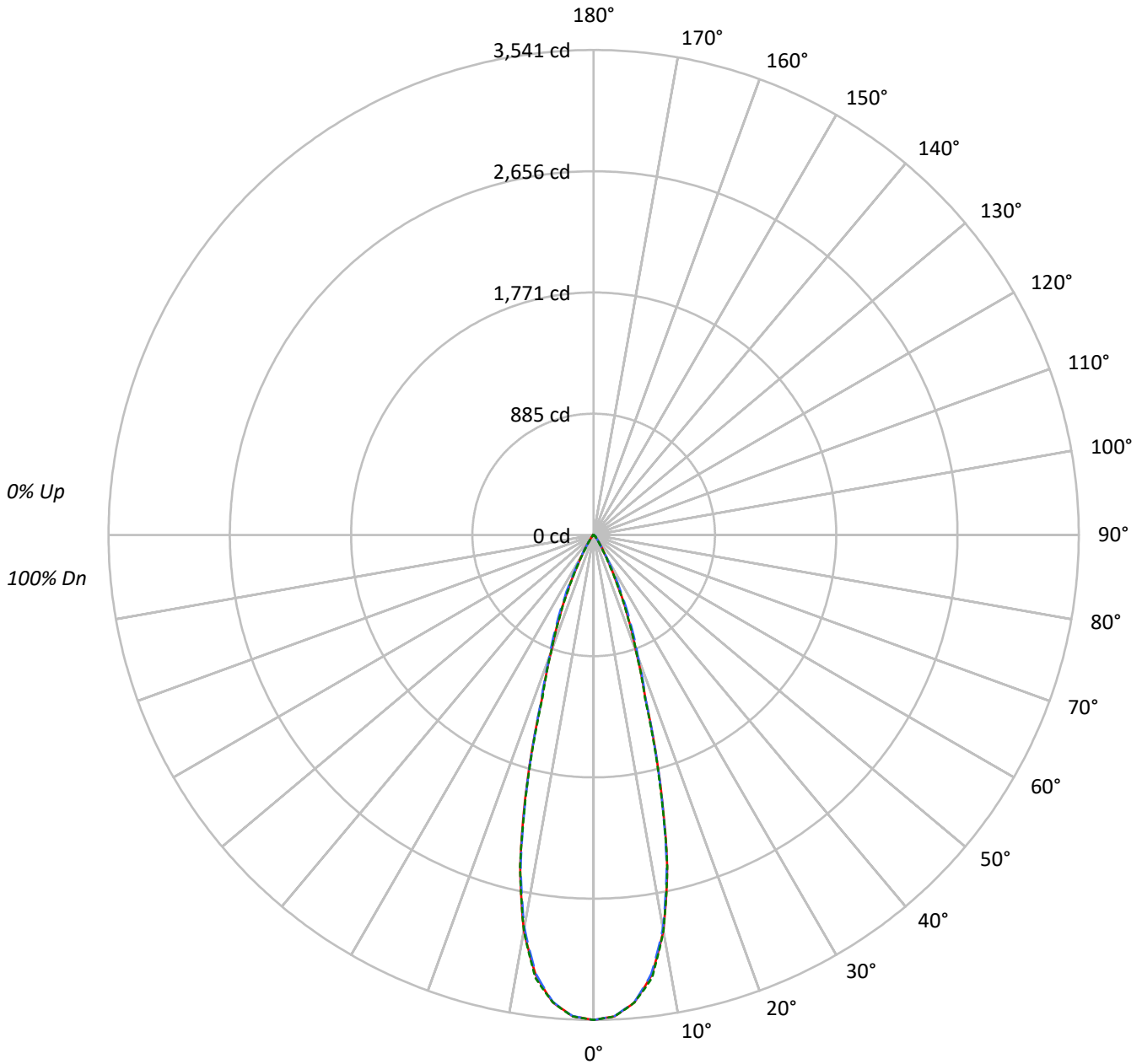


Downlight



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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°	271055	271055	271055
5°	263278	262970	263285
10°	228043	226426	227981
15°	148788	147987	147242
20°	73978	76756	73880
25°	37271	42025	36502
30°	14919	16263	13001
35°	6924	6625	5560
40°	2988	3317	2818
45°	2111	2620	2132
50°	726	1905	762
55°	427	787	440
60°	291	337	291
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: 2620 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.4	28.3
10°-20°	501.5	45.5
20°-30°	216.7	19.7
30°-40°	49.4	4.5
40°-50°	17.0	1.5
50°-60°	4.1	0.4
60°-70°	1.1	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°	1029.6	93.5
0°-40°	1079.0	98.0
0°-60°	1100.1	99.9
0°-90°	1101.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3541	3541	3541	3541	3541	
5°	3426	3423	3422	3430	3427	312
15°	1878	1855	1868	1861	1858	503
25°	441	458	498	446	432	211
35°	74	76	71	70	60	50
45°	20	24	24	24	20	14
55°	3	3	6	4	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3541.2	3541.2	3541.2	3541.2	3541.2
2.5°	3517.7	3515.3	3516.7	3518.5	3519.2
5°	3426.5	3423.2	3422.5	3429.6	3426.6
7.5°	3242.4	3237.7	3230.5	3246.7	3261.9
10°	2934.0	2928.7	2913.2	2920.9	2933.2
12.5°	2478.6	2461.7	2461.4	2485.7	2482.4
15°	1877.6	1854.9	1867.5	1861.4	1858.1
17.5°	1262.6	1253.9	1270.6	1265.5	1243.8
20°	908.2	910.5	942.3	926.3	907.0
22.5°	662.8	670.9	708.7	667.5	652.4
25°	441.3	458.0	497.6	446.3	432.2
27.5°	271.4	279.0	319.2	267.9	260.3
30°	168.8	165.0	184.0	157.8	147.1
32.5°	110.8	105.9	112.0	100.5	91.8
35°	74.1	75.6	70.9	70.4	59.5
37.5°	46.2	53.2	46.9	50.1	38.3
40°	29.9	38.6	33.2	36.7	28.2
42.5°	24.5	29.7	27.3	29.0	25.0
45°	19.5	24.2	24.2	24.2	19.7
47.5°	10.8	16.2	20.7	16.5	11.5
50°	6.1	8.2	16.0	8.5	6.4
52.5°	4.2	4.7	10.9	4.9	4.4
55°	3.2	3.3	5.9	3.5	3.3
57.5°	2.4	2.6	3.2	2.6	2.4
60°	1.9	1.9	2.2	2.1	1.9
62.5°	1.4	1.4	1.5	1.4	1.4
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.7	0.7	0.7	0.7
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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