

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: P743169

Luminaire Tested: LD4D15D010-EU4DR300215IC9050-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743169
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: LD4D15D010-EU4DR300215IC9050-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1131.8 lumens
Efficiency: N/A
Efficacy: 71.6 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): 15.8
Input Voltage (V): NR
Input Current (Ain): 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

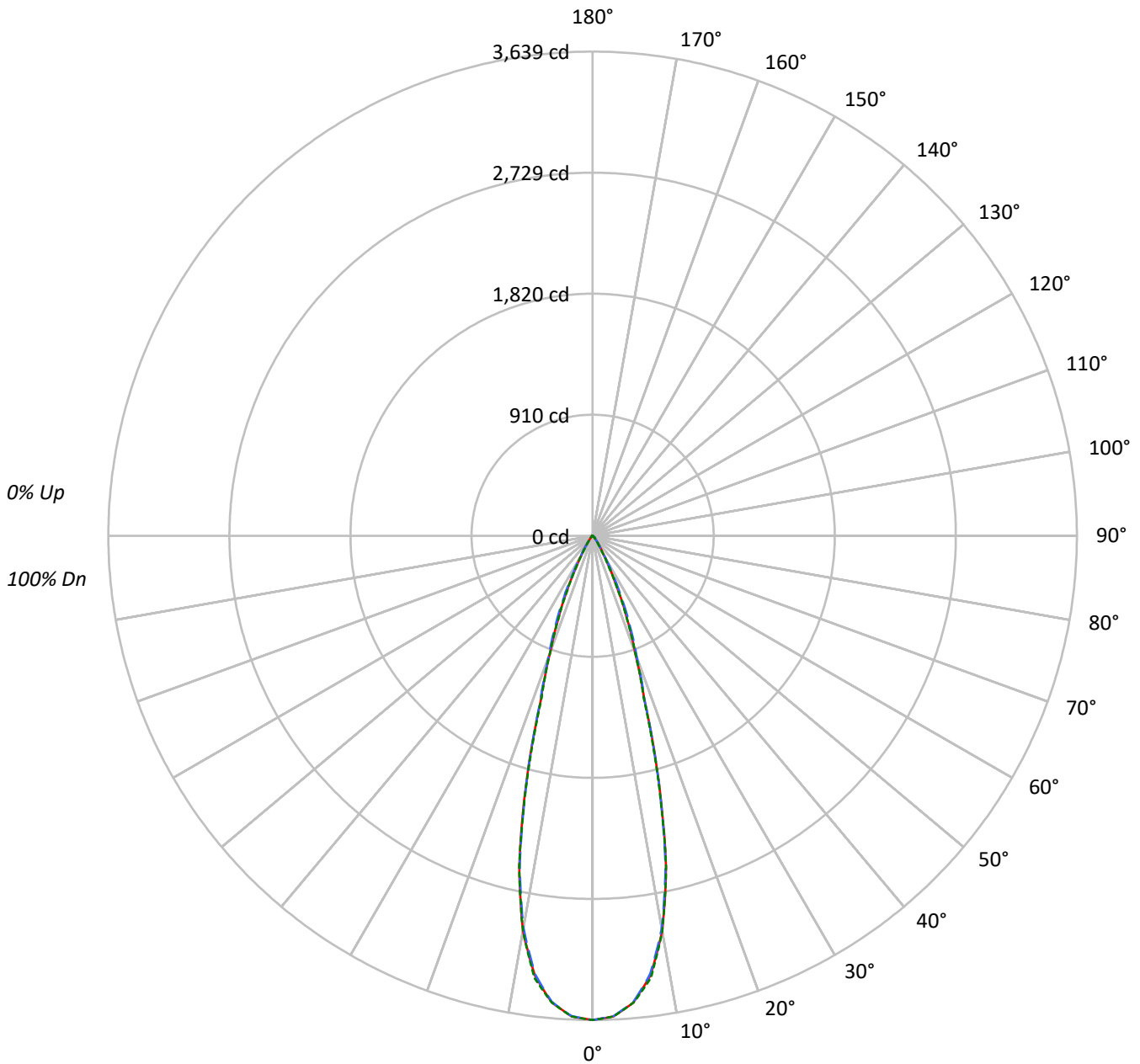


Downlight



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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	87	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°	278572	278572	278572
5°	270577	270262	270593
10°	234362	232706	234307
15°	152908	152092	151323
20°	76039	78890	75933
25°	38301	43191	37515
30°	15335	16714	13355
35°	7111	6812	5709
40°	3068	3407	2888
45°	2165	2685	2187
50°	738	1953	786
55°	427	814	454
60°	291	352	291
65°	199	199	199
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: 2685 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	28.3
10°-20°	515.4	45.5
20°-30°	222.7	19.7
30°-40°	50.8	4.5
40°-50°	17.4	1.5
50°-60°	4.3	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°	1058.2	93.5
0°-40°	1108.9	98.0
0°-60°	1130.6	99.9
0°-90°	1131.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1131.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3639	3639	3639	3639	3639	
5°	3522	3518	3517	3525	3522	320
15°	1930	1906	1919	1913	1910	517
25°	454	471	511	459	444	217
35°	76	78	73	72	61	52
45°	20	25	25	25	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°	3639.4	3639.4	3639.4	3639.4	3639.4
2.5°	3615.3	3612.8	3614.2	3616.0	3616.8
5°	3521.5	3518.1	3517.4	3524.7	3521.7
7.5°	3332.3	3327.5	3320.1	3336.8	3352.3
10°	3015.3	3009.9	2994.0	3001.9	3014.6
12.5°	2547.3	2530.0	2529.6	2554.7	2551.2
15°	1929.6	1906.4	1919.3	1913.0	1909.6
17.5°	1297.6	1288.7	1305.8	1300.7	1278.3
20°	933.5	935.7	968.5	952.0	932.2
22.5°	681.1	689.5	728.3	686.0	670.4
25°	453.5	470.7	511.4	458.7	444.2
27.5°	278.9	286.8	328.1	275.4	267.5
30°	173.5	169.6	189.1	162.3	151.1
32.5°	113.8	108.8	115.0	103.3	94.4
35°	76.1	77.7	72.9	72.4	61.1
37.5°	47.6	54.7	48.2	51.5	39.3
40°	30.7	39.6	34.1	37.7	28.9
42.5°	25.2	30.5	28.1	29.9	25.7
45°	20.0	24.8	24.8	24.8	20.2
47.5°	11.1	16.6	21.3	17.0	11.8
50°	6.2	8.4	16.4	8.8	6.6
52.5°	4.3	4.8	11.2	5.0	4.5
55°	3.2	3.4	6.1	3.6	3.4
57.5°	2.5	2.7	3.2	2.7	2.5
60°	1.9	1.9	2.3	2.1	1.9
62.5°	1.4	1.4	1.6	1.4	1.4
65°	1.1	1.1	1.1	1.1	1.1
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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