

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: P743158

Luminaire Tested: LD4D15D010-EU4DR300215IC9040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743158
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-EU4DR300215IC9040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1493.7 lumens
Efficiency: N/A
Efficacy: 94.5 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 (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



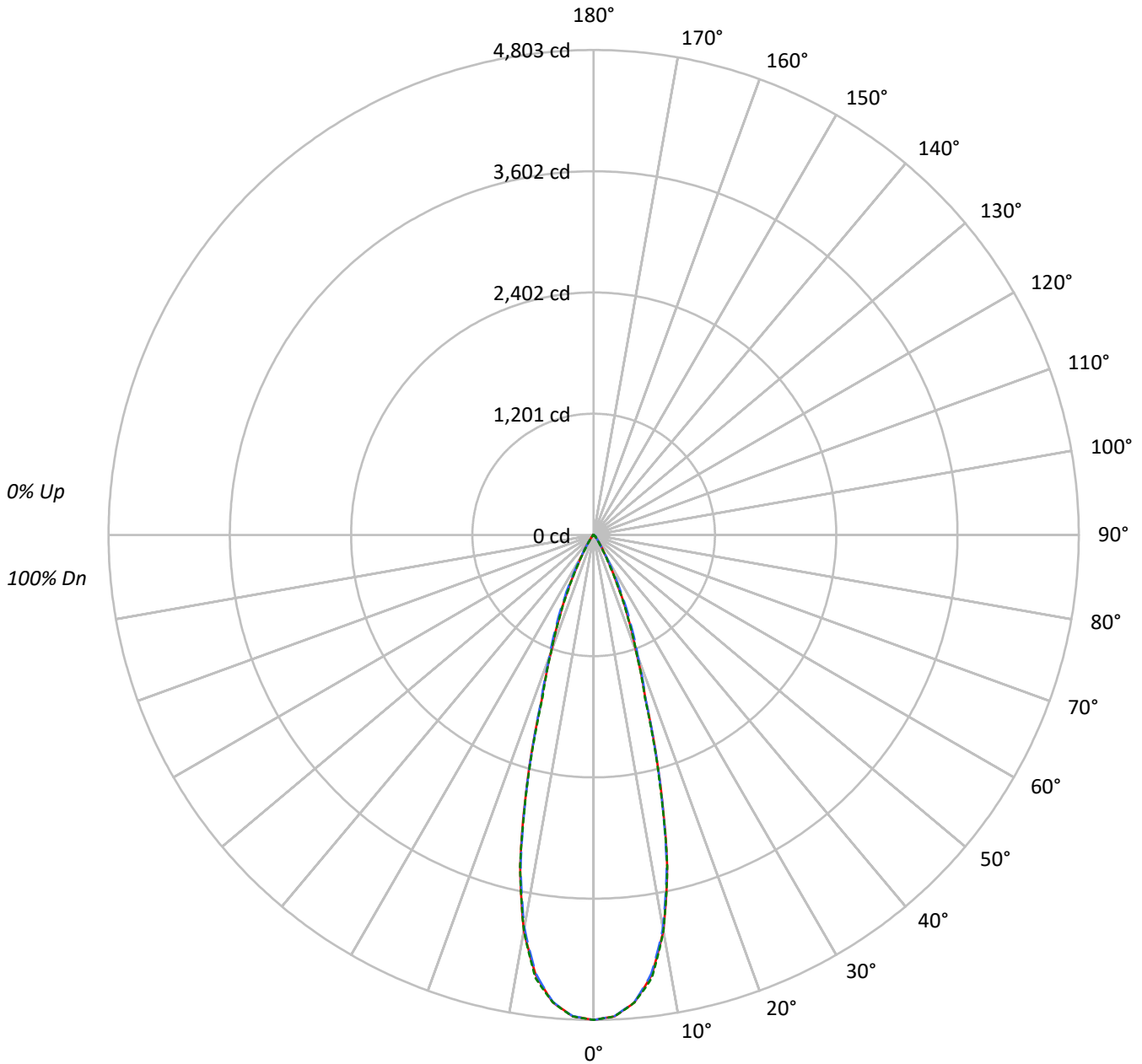
Downlight



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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°	367653	367653	367653
5°	357094	356679	357117
10°	309303	307119	309226
15°	201802	200724	199710
20°	100345	104109	100215
25°	50547	57000	49508
30°	20240	22052	17633
35°	9382	8989	7541
40°	4057	4496	3817
45°	2858	3551	2879
50°	988	2584	1036
55°	560	1068	601
60°	398	475	398
65°	254	254	254
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3551 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.4	28.3
10°-20°	680.2	45.5
20°-30°	293.9	19.7
30°-40°	67.0	4.5
40°-50°	23.0	1.5
50°-60°	5.6	0.4
60°-70°	1.4	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°	1396.5	93.5
0°-40°	1463.5	98.0
0°-60°	1492.2	99.9
0°-90°	1493.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1493.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4803	4803	4803	4803	4803	
5°	4648	4643	4642	4652	4648	423
15°	2547	2516	2533	2525	2520	682
25°	598	621	675	605	586	286
35°	100	103	96	96	81	68
45°	26	33	33	33	27	19
55°	4	4	8	5	4	4
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°	4803.2	4803.2	4803.2	4803.2	4803.2
2.5°	4771.4	4768.0	4769.9	4772.3	4773.3
5°	4647.5	4643.1	4642.1	4651.8	4647.8
7.5°	4397.8	4391.4	4381.8	4403.7	4424.2
10°	3979.5	3972.4	3951.4	3961.8	3978.5
12.5°	3361.8	3339.0	3338.5	3371.5	3367.1
15°	2546.6	2515.9	2533.0	2524.7	2520.2
17.5°	1712.5	1700.7	1723.4	1716.6	1687.1
20°	1231.9	1235.0	1278.1	1256.4	1230.3
22.5°	899.0	910.0	961.2	905.3	884.8
25°	598.5	621.1	674.9	605.3	586.2
27.5°	368.1	378.5	433.0	363.4	353.0
30°	229.0	223.8	249.5	214.1	199.5
32.5°	150.2	143.6	151.9	136.3	124.5
35°	100.4	102.6	96.2	95.5	80.7
37.5°	62.7	72.1	63.7	67.9	51.9
40°	40.6	52.4	45.0	49.7	38.2
42.5°	33.2	40.3	37.0	39.4	34.0
45°	26.4	32.8	32.8	32.8	26.6
47.5°	14.6	21.9	28.1	22.4	15.6
50°	8.3	11.1	21.7	11.6	8.7
52.5°	5.7	6.4	14.8	6.6	5.9
55°	4.2	4.5	8.0	4.7	4.5
57.5°	3.3	3.6	4.2	3.6	3.3
60°	2.6	2.6	3.1	2.8	2.6
62.5°	1.9	1.9	2.1	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	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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