

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: P743156

Luminaire Tested: LD4D15D010-EU4DR300215IC9040-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P743156
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-EU4DR300215IC9040-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1145.3 lumens
Efficiency: N/A
Efficacy: 72.5 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



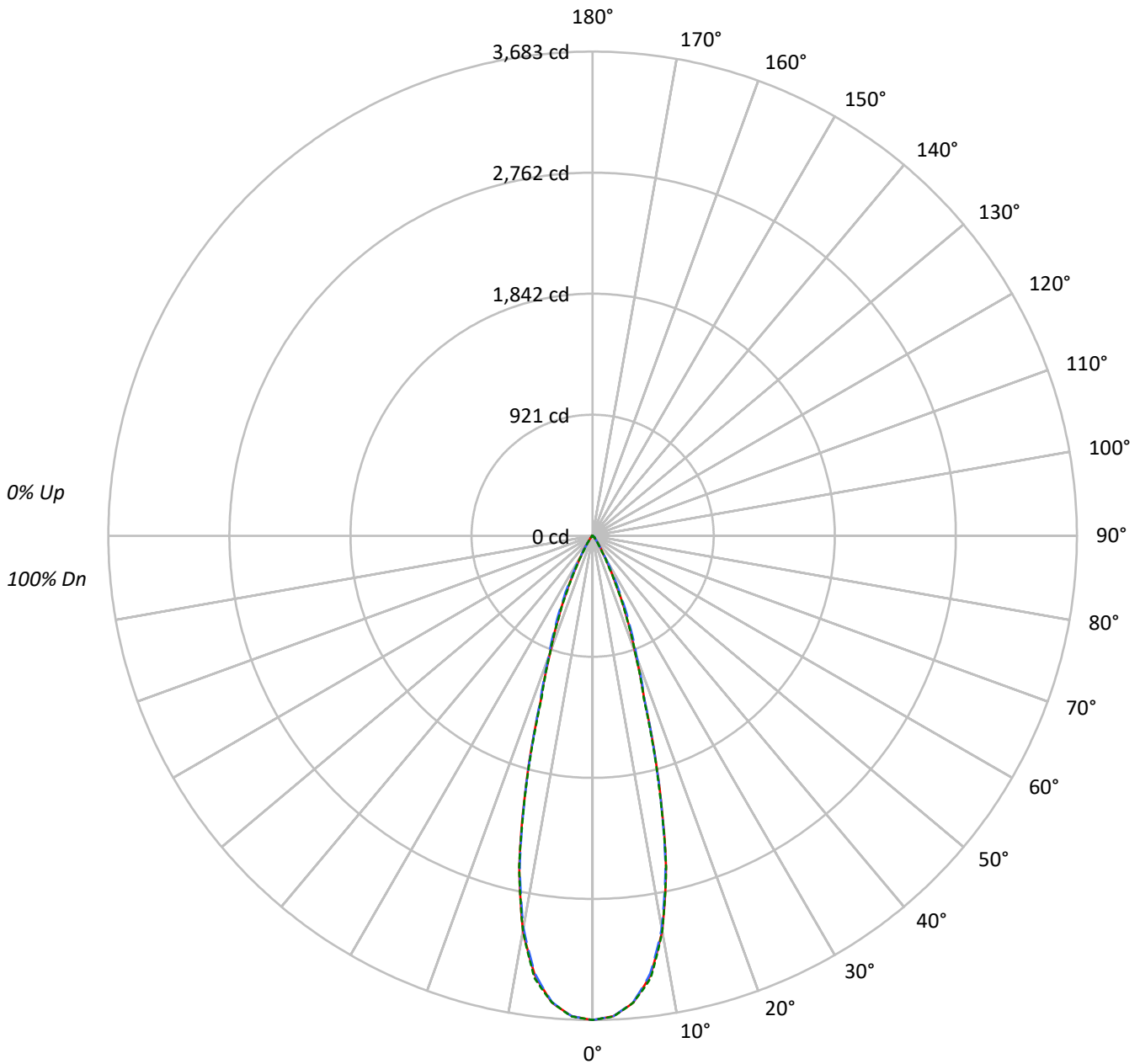
Downlight



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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	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°	281902	281902	281902
5°	273804	273482	273820
10°	237152	235489	237105
15°	154731	153899	153130
20°	76943	79827	76837
25°	38757	43706	37963
30°	15520	16908	13523
35°	7195	6896	5775
40°	3108	3447	2928
45°	2187	2728	2219
50°	750	1977	798
55°	440	814	454
60°	306	352	306
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: 2728 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.9	28.3
10°-20°	521.6	45.5
20°-30°	225.4	19.7
30°-40°	51.4	4.5
40°-50°	17.6	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°	1070.8	93.5
0°-40°	1122.2	98.0
0°-60°	1144.1	99.9
0°-90°	1145.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1145.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3683	3683	3683	3683	3683	
5°	3564	3560	3559	3567	3564	324
15°	1953	1929	1942	1936	1932	523
25°	459	476	518	464	450	220
35°	77	79	74	73	62	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°	3682.9	3682.9	3682.9	3682.9	3682.9
2.5°	3658.5	3655.9	3657.4	3659.2	3659.9
5°	3563.5	3560.1	3559.3	3566.8	3563.7
7.5°	3372.0	3367.2	3359.7	3376.6	3392.3
10°	3051.2	3045.9	3029.8	3037.7	3050.6
12.5°	2577.7	2560.2	2559.8	2585.2	2581.7
15°	1952.6	1929.1	1942.1	1935.8	1932.4
17.5°	1313.1	1304.0	1321.4	1316.2	1293.6
20°	944.6	946.9	980.0	963.4	943.3
22.5°	689.3	697.8	737.0	694.1	678.4
25°	458.9	476.3	517.5	464.1	449.5
27.5°	282.2	290.2	332.0	278.6	270.7
30°	175.6	171.6	191.3	164.2	153.0
32.5°	115.2	110.1	116.4	104.5	95.5
35°	77.0	78.7	73.8	73.2	61.8
37.5°	48.1	55.3	48.8	52.1	39.8
40°	31.1	40.2	34.5	38.2	29.3
42.5°	25.5	30.9	28.4	30.2	26.0
45°	20.2	25.2	25.2	25.2	20.5
47.5°	11.2	16.8	21.5	17.2	11.9
50°	6.3	8.5	16.6	8.9	6.7
52.5°	4.4	4.9	11.4	5.0	4.5
55°	3.3	3.4	6.1	3.6	3.4
57.5°	2.5	2.7	3.3	2.7	2.5
60°	2.0	2.0	2.3	2.2	2.0
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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