

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: P739892

Luminaire Tested: LD4D05D010-EU4DR150210IC9040-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739892
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR150210IC9040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 731.0 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 7.5
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



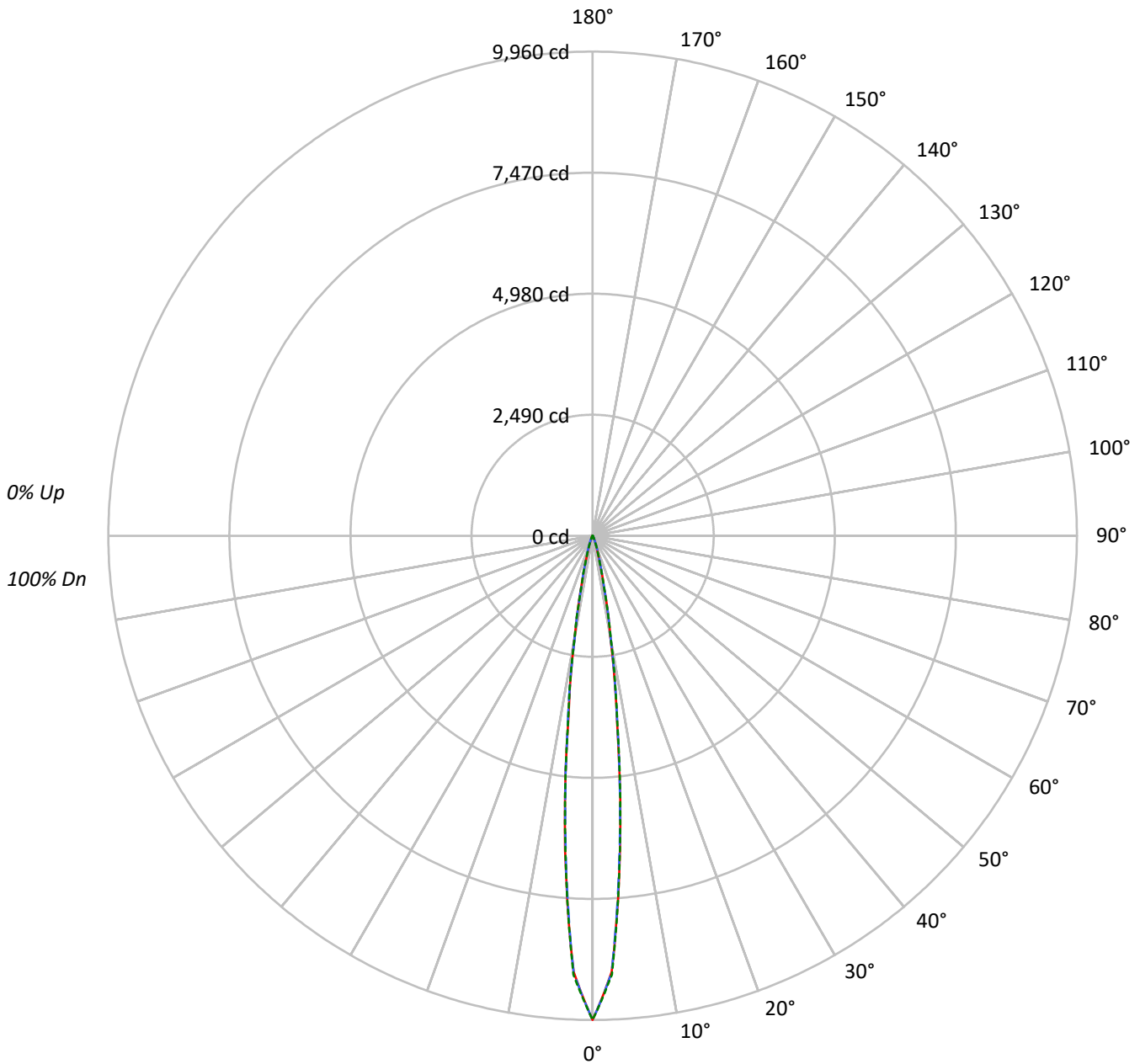
Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1120654	1120654	1120654
5°	658555	650029	655171
10°	196543	197924	200957
15°	48892	49838	48301
20°	14630	16937	14941
25°	5157	6567	5219
30°	1894	2494	1924
35°	951	1075	915
40°	597	660	597
45°	441	469	441
50°	355	355	355
55°	292	292	292
60°	239	239	239
65°	178	178	178
70°	154	154	154
75°	98	98	128
80°	63	63	63
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 469 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	474.1	64.9
10°-20°	195.0	26.7
20°-30°	38.7	5.3
30°-40°	9.7	1.3
40°-50°	5.1	0.7
50°-60°	3.8	0.5
60°-70°	2.7	0.4
70°-80°	1.5	0.2
80°-90°	0.4	0.1
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°	707.8	96.8
0°-40°	717.5	98.2
0°-60°	726.4	99.4
0°-90°	731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9960	9960	9960	9960	9960	
5°	6480	6413	6396	6440	6447	473
15°	563	573	574	564	556	193
25°	66	75	84	75	67	35
35°	13	14	15	14	13	9
45°	6	6	7	6	6	5
55°	4	4	4	4	4	4
65°	2	2	2	2	2	3
75°	1	1	1	1	2	2
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°	9959.6	9959.6	9959.6	9959.6	9959.6
2.5°	8984.0	8991.6	8994.5	9003.4	9036.3
5°	6480.0	6413.4	6396.1	6440.3	6446.7
7.5°	3838.5	3852.0	3901.3	3912.3	3872.6
10°	2106.4	2123.7	2121.2	2136.4	2153.7
12.5°	1077.3	1063.8	1059.5	1076.8	1052.8
15°	562.9	573.4	573.8	563.7	556.1
17.5°	302.7	315.0	335.2	318.7	293.5
20°	178.8	189.7	207.0	193.5	182.6
22.5°	110.5	119.3	131.5	121.0	112.2
25°	66.2	75.0	84.3	74.6	67.0
27.5°	39.2	46.8	52.7	46.4	38.8
30°	25.3	29.5	33.3	29.1	25.7
32.5°	17.7	19.4	21.1	19.4	17.7
35°	13.1	13.9	14.8	13.9	12.6
37.5°	10.1	11.0	11.4	10.5	9.7
40°	8.4	8.9	9.3	8.9	8.4
42.5°	7.2	7.6	7.6	7.6	7.2
45°	6.3	6.3	6.7	6.3	6.3
47.5°	5.5	5.5	5.9	5.5	5.5
50°	5.1	5.1	5.1	5.1	5.1
52.5°	4.6	4.6	4.6	4.6	4.6
55°	4.2	4.2	4.2	4.2	4.2
57.5°	3.8	3.8	3.8	3.8	3.8
60°	3.4	3.4	3.4	3.4	3.4
62.5°	3.0	3.0	3.0	3.0	3.0
65°	2.5	2.5	2.5	2.5	2.5
67.5°	2.5	2.5	2.5	2.5	2.5
70°	2.1	2.1	2.1	2.1	2.1
72.5°	1.7	1.7	1.7	1.7	1.7
75°	1.3	1.3	1.3	1.3	1.7
77.5°	1.3	1.3	1.3	1.3	1.3
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
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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