

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: P739868

Luminaire Tested: LD4D05D010-EU4DR150210IC9030-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739868
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-EU4DR150210IC9030-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 634.0 lumens
Efficiency: N/A
Efficacy: 84.5 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 (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

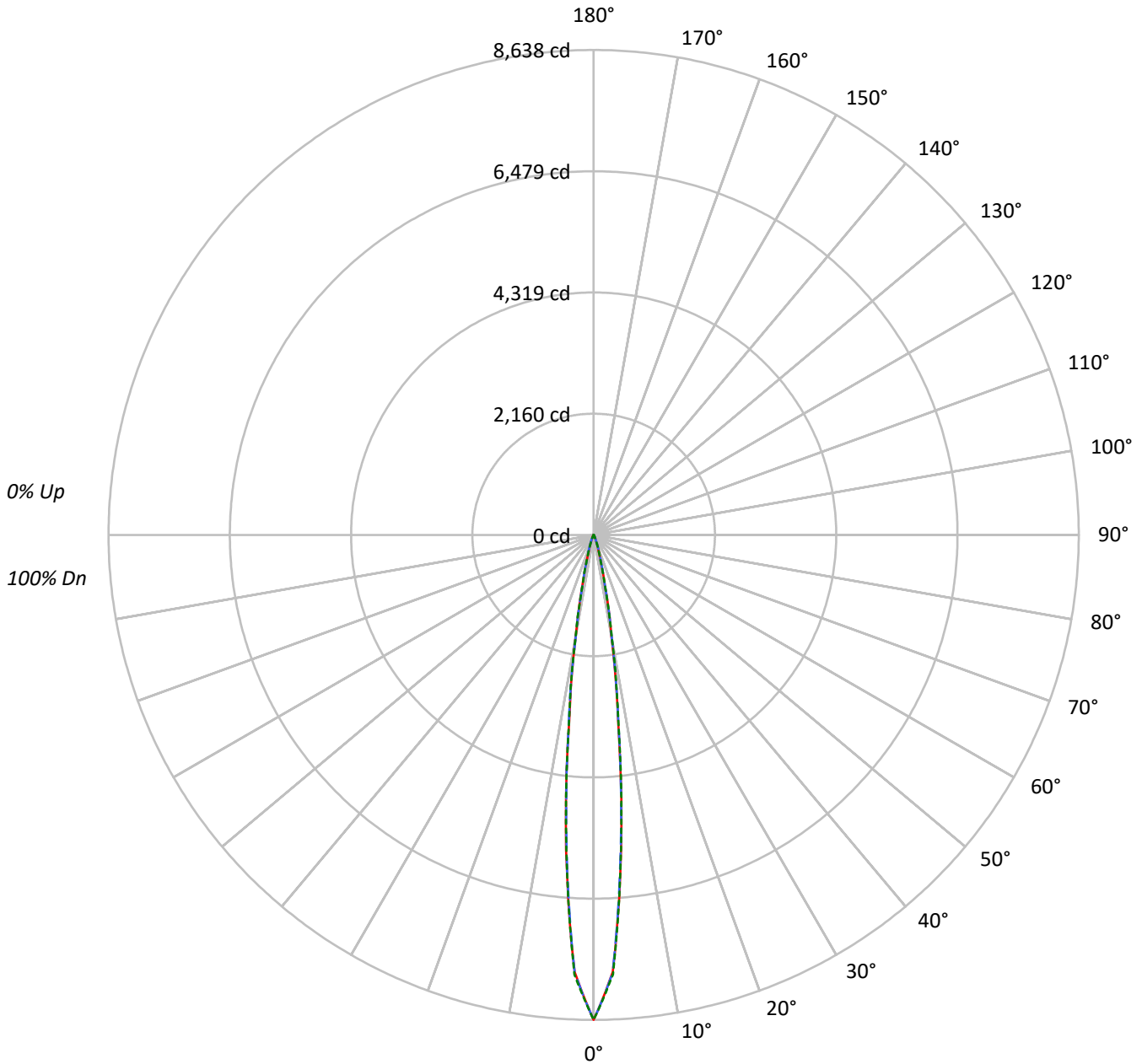


Downlight



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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	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	87	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°	971947	971947	971947
5°	571165	563766	568228
10°	170464	171658	174289
15°	42404	43229	41891
20°	12683	14687	12953
25°	4472	5695	4526
30°	1640	2164	1670
35°	821	930	799
40°	518	568	518
45°	385	413	385
50°	306	306	306
55°	258	258	258
60°	204	204	204
65°	157	157	157
70°	132	132	132
75°	83	83	113
80°	55	55	55
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 413 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.2	64.9
10°-20°	169.1	26.7
20°-30°	33.6	5.3
30°-40°	8.4	1.3
40°-50°	4.4	0.7
50°-60°	3.3	0.5
60°-70°	2.3	0.4
70°-80°	1.3	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°	613.9	96.8
0°-40°	622.3	98.2
0°-60°	630.0	99.4
0°-90°	634.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	634.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8638	8638	8638	8638	8638	
5°	5620	5562	5547	5586	5591	410
15°	488	497	498	489	482	167
25°	57	65	73	65	58	30
35°	11	12	13	12	11	8
45°	6	6	6	6	6	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
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°	8638.0	8638.0	8638.0	8638.0	8638.0
2.5°	7791.8	7798.4	7801.0	7808.6	7837.2
5°	5620.1	5562.3	5547.3	5585.7	5591.2
7.5°	3329.1	3340.8	3383.6	3393.1	3358.7
10°	1826.9	1841.9	1839.7	1852.9	1867.9
12.5°	934.3	922.6	918.9	933.9	913.1
15°	488.2	497.3	497.7	488.9	482.3
17.5°	262.6	273.2	290.7	276.5	254.5
20°	155.0	164.6	179.5	167.8	158.3
22.5°	95.8	103.5	114.1	104.9	97.3
25°	57.4	65.1	73.1	64.7	58.1
27.5°	34.0	40.6	45.7	40.2	33.6
30°	21.9	25.6	28.9	25.2	22.3
32.5°	15.4	16.8	18.3	16.8	15.4
35°	11.3	12.1	12.8	12.1	11.0
37.5°	8.8	9.5	9.9	9.1	8.4
40°	7.3	7.7	8.0	7.7	7.3
42.5°	6.2	6.6	6.6	6.6	6.2
45°	5.5	5.5	5.9	5.5	5.5
47.5°	4.8	4.8	5.1	4.8	4.8
50°	4.4	4.4	4.4	4.4	4.4
52.5°	4.0	4.0	4.0	4.0	4.0
55°	3.7	3.7	3.7	3.7	3.7
57.5°	3.3	3.3	3.3	3.3	3.3
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.6	2.6	2.6	2.6	2.6
65°	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
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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(END OF REPORT)