

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: P741919

Luminaire Tested: LD4D10D010-EU4DR150210IC9040-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741919
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: LD4D10D010-EU4DR150210IC9040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 1095.0 lumens
Efficiency: N/A
Efficacy: 93.6 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): 11.7
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



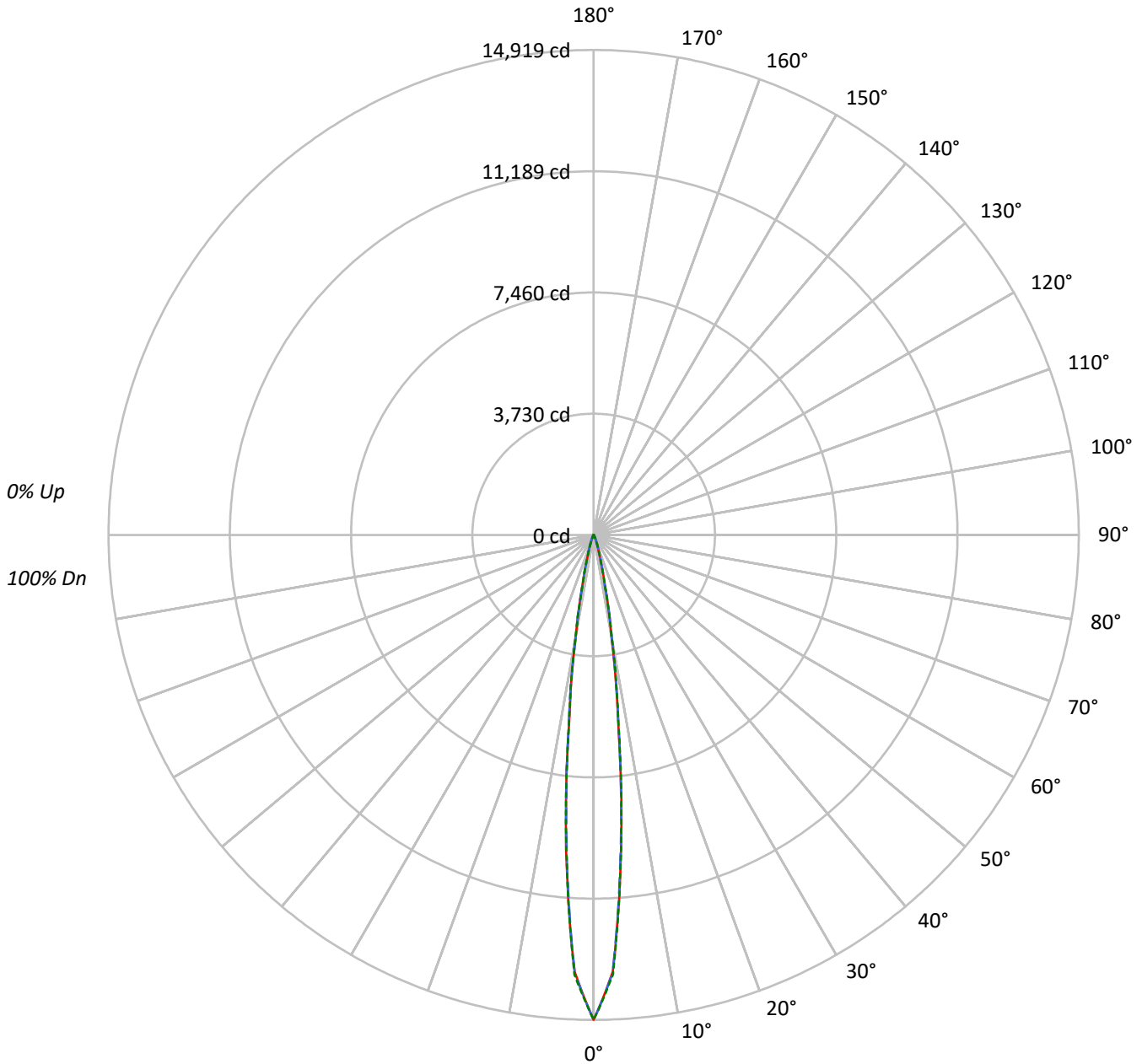
Downlight



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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					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98					98			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96					96			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94					94			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93					93			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92					92			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90					90			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89					89			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88					88			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87					87			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86					86			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1678640	1678640	1678640
5°	986451	973676	981380
10°	294413	296476	301010
15°	73229	74653	72352
20°	21912	25373	22379
25°	7728	9839	7821
30°	2838	3737	2883
35°	1423	1605	1373
40°	895	987	895
45°	665	707	665
50°	528	528	528
55°	439	439	439
60°	358	358	358
65°	271	271	271
70°	234	234	234
75°	144	144	189
80°	102	102	102
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 707 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	710.2	64.9
10°-20°	292.1	26.7
20°-30°	58.0	5.3
30°-40°	14.5	1.3
40°-50°	7.6	0.7
50°-60°	5.6	0.5
60°-70°	4.0	0.4
70°-80°	2.3	0.2
80°-90°	0.7	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°	1060.3	96.8
0°-40°	1074.8	98.2
0°-60°	1088.0	99.4
0°-90°	1095.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14919	14919	14919	14919	14919	
5°	9706	9607	9581	9647	9656	709
15°	843	859	860	844	833	289
25°	99	112	126	112	100	52
35°	20	21	22	21	19	13
45°	10	10	10	10	10	7
55°	6	6	6	6	6	6
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14918.6	14918.6	14918.6	14918.6	14918.6
2.5°	13457.2	13468.6	13473.0	13486.2	13535.5
5°	9706.4	9606.6	9580.7	9647.0	9656.5
7.5°	5749.7	5769.9	5843.8	5860.2	5800.8
10°	3155.3	3181.1	3177.4	3200.1	3226.0
12.5°	1613.6	1593.4	1587.1	1613.0	1577.0
15°	843.1	858.9	859.5	844.4	833.0
17.5°	453.5	471.8	502.1	477.5	439.6
20°	267.8	284.2	310.1	289.9	273.5
22.5°	165.5	178.7	197.0	181.3	168.0
25°	99.2	112.4	126.3	111.8	100.4
27.5°	58.7	70.1	78.9	69.5	58.1
30°	37.9	44.2	49.9	43.6	38.5
32.5°	26.5	29.1	31.6	29.1	26.5
35°	19.6	20.8	22.1	20.8	18.9
37.5°	15.2	16.4	17.1	15.8	14.5
40°	12.6	13.3	13.9	13.3	12.6
42.5°	10.7	11.4	11.4	11.4	10.7
45°	9.5	9.5	10.1	9.5	9.5
47.5°	8.2	8.2	8.8	8.2	8.2
50°	7.6	7.6	7.6	7.6	7.6
52.5°	6.9	6.9	6.9	6.9	6.9
55°	6.3	6.3	6.3	6.3	6.3
57.5°	5.7	5.7	5.7	5.7	5.7
60°	5.1	5.1	5.1	5.1	5.1
62.5°	4.4	4.4	4.4	4.4	4.4
65°	3.8	3.8	3.8	3.8	3.8
67.5°	3.8	3.8	3.8	3.8	3.8
70°	3.2	3.2	3.2	3.2	3.2
72.5°	2.5	2.5	2.5	2.5	2.5
75°	1.9	1.9	1.9	1.9	2.5
77.5°	1.9	1.9	1.9	1.9	1.9
80°	1.3	1.3	1.3	1.3	1.3
82.5°	1.3	1.3	1.3	1.3	1.3
85°	0.6	0.6	0.6	0.6	0.6
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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