

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: P777616

Luminaire Tested: LERS4D08D010-EC4DR150210IC9035-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777616
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: LERS4D08D010-EC4DR150210IC9035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 787.4 lumens
Efficiency: N/A
Efficacy: 88.5 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): 8.9
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



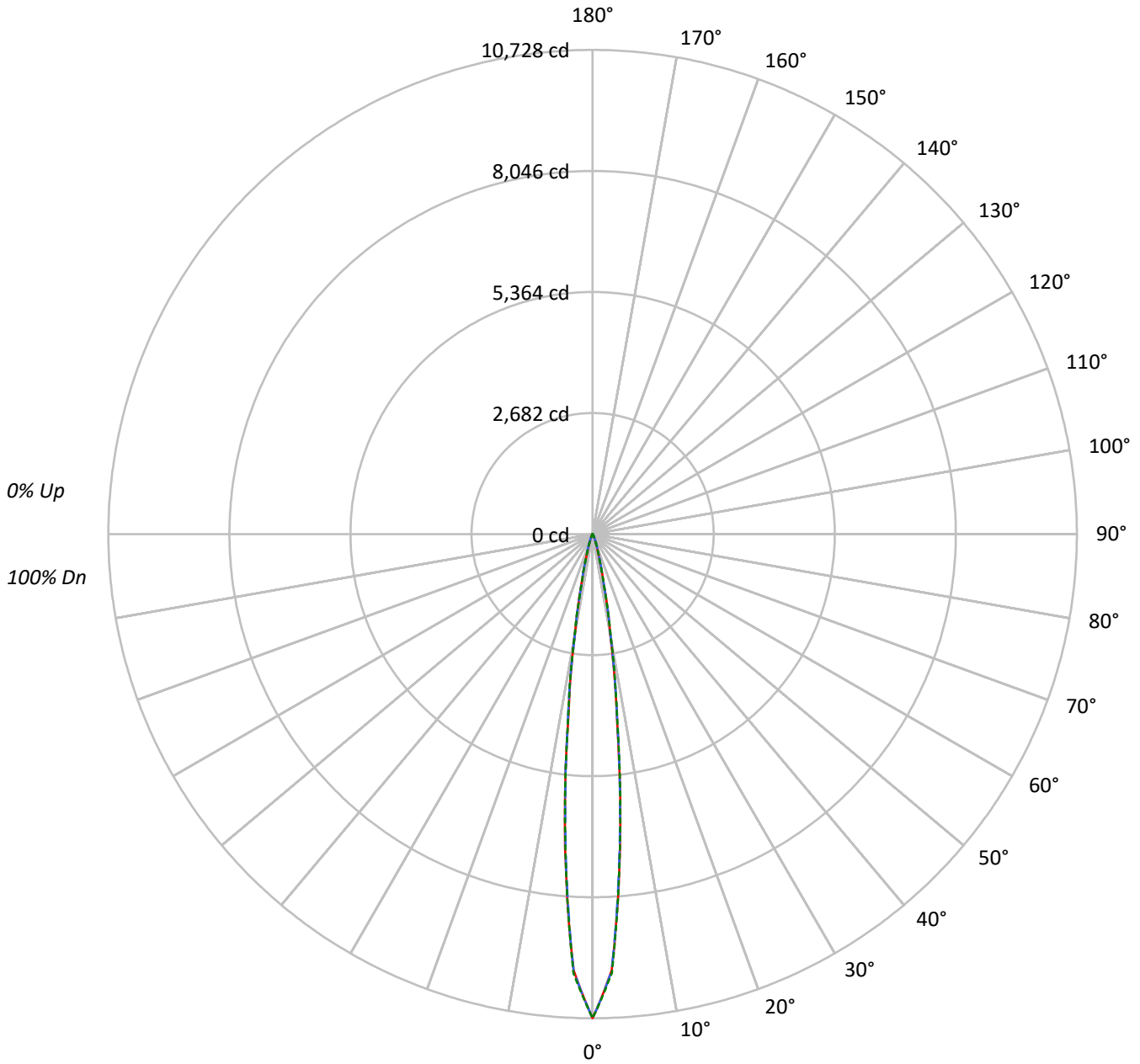
Downlight



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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	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	88	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°	1207125	1207125	1207125
5°	709370	700182	705721
10°	211715	213199	216455
15°	52661	53686	52027
20°	15759	18246	16095
25°	5554	7073	5624
30°	2037	2688	2074
35°	1024	1155	988
40°	646	710	646
45°	476	511	476
50°	375	375	375
55°	313	313	313
60°	253	253	253
65°	193	193	193
70°	168	168	168
75°	106	106	136
80°	71	71	71
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 511 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.7	64.9
10°-20°	210.1	26.7
20°-30°	41.7	5.3
30°-40°	10.4	1.3
40°-50°	5.5	0.7
50°-60°	4.0	0.5
60°-70°	2.9	0.4
70°-80°	1.6	0.2
80°-90°	0.5	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°	762.5	96.8
0°-40°	772.9	98.2
0°-60°	782.4	99.4
0°-90°	787.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	787.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10728	10728	10728	10728	10728	
5°	6980	6908	6890	6937	6944	510
15°	606	618	618	607	599	208
25°	71	81	91	80	72	37
35°	14	15	16	15	14	10
45°	7	7	7	7	7	5
55°	4	4	4	4	4	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10728.1	10728.1	10728.1	10728.1	10728.1
2.5°	9677.2	9685.4	9688.6	9698.1	9733.5
5°	6980.0	6908.2	6889.6	6937.3	6944.1
7.5°	4134.7	4149.2	4202.3	4214.1	4171.4
10°	2269.0	2287.6	2284.9	2301.2	2319.8
12.5°	1160.4	1145.8	1141.3	1159.9	1134.0
15°	606.3	617.7	618.1	607.2	599.0
17.5°	326.1	339.3	361.1	343.3	316.1
20°	192.6	204.4	223.0	208.5	196.7
22.5°	119.0	128.5	141.7	130.3	120.8
25°	71.3	80.8	90.8	80.4	72.2
27.5°	42.2	50.4	56.8	50.0	41.8
30°	27.2	31.8	35.9	31.3	27.7
32.5°	19.1	20.9	22.7	20.9	19.1
35°	14.1	15.0	15.9	15.0	13.6
37.5°	10.9	11.8	12.3	11.4	10.4
40°	9.1	9.5	10.0	9.5	9.1
42.5°	7.7	8.2	8.2	8.2	7.7
45°	6.8	6.8	7.3	6.8	6.8
47.5°	5.9	5.9	6.4	5.9	5.9
50°	5.4	5.4	5.4	5.4	5.4
52.5°	5.0	5.0	5.0	5.0	5.0
55°	4.5	4.5	4.5	4.5	4.5
57.5°	4.1	4.1	4.1	4.1	4.1
60°	3.6	3.6	3.6	3.6	3.6
62.5°	3.2	3.2	3.2	3.2	3.2
65°	2.7	2.7	2.7	2.7	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.4	1.4	1.4	1.4	1.8
77.5°	1.4	1.4	1.4	1.4	1.4
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5
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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