

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: P777604

Luminaire Tested: LERS4D08D010-EC4DR150210IC9024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777604
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-EC4DR150210IC9024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 650.8 lumens
Efficiency: N/A
Efficacy: 73.1 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 (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



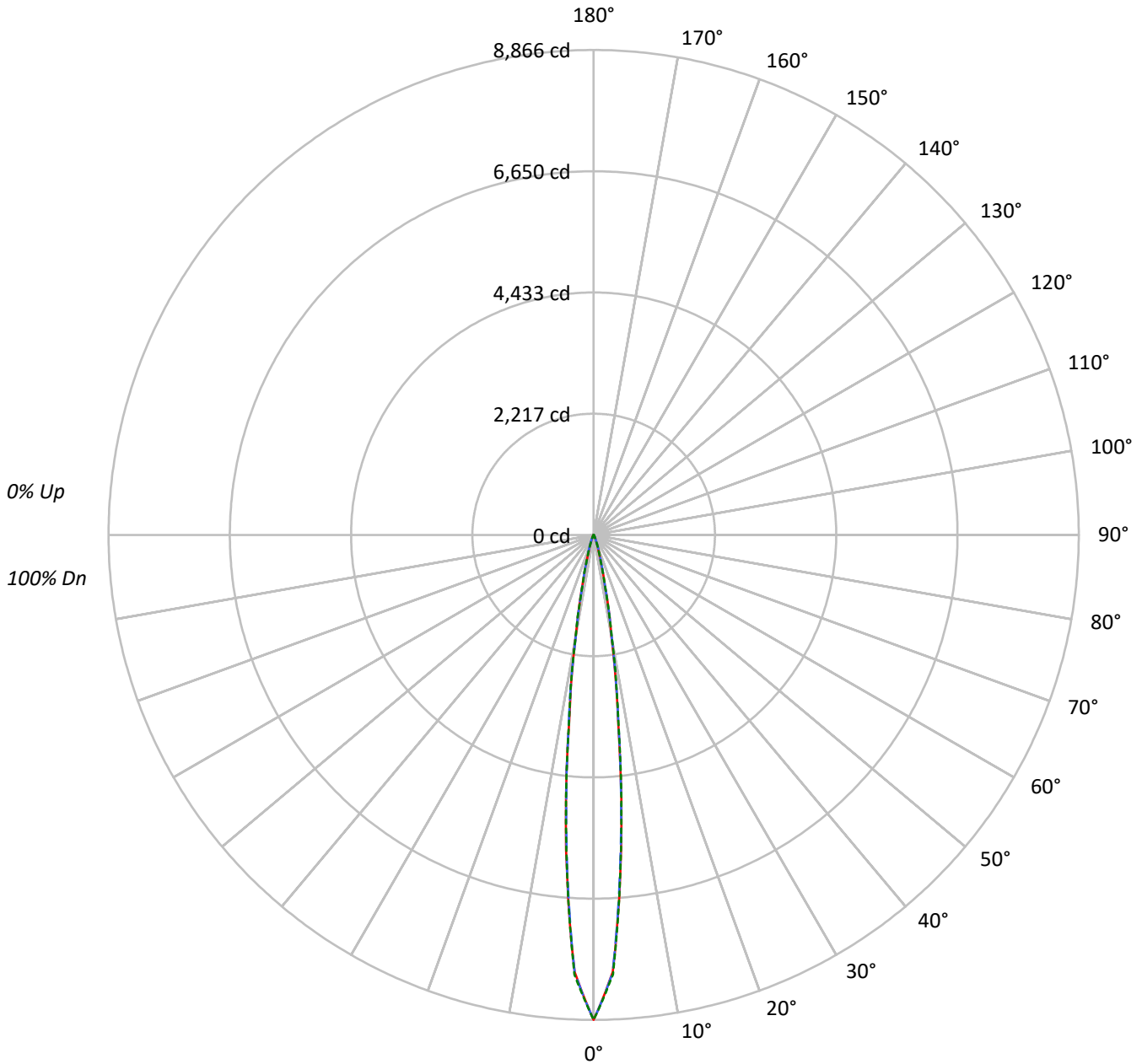
Downlight



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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	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	93	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°	997602	997602	997602
5°	586236	578644	583218
10°	174961	176193	178889
15°	43524	44366	43003
20°	13018	15080	13296
25°	4588	5850	4651
30°	1685	2224	1715
35°	842	951	821
40°	533	589	533
45°	392	420	392
50°	313	313	313
55°	264	264	264
60°	211	211	211
65°	164	164	164
70°	139	139	139
75°	83	83	113
80°	63	63	63
85°	33	33	33

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 420 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.0	64.8
10°-20°	173.6	26.7
20°-30°	34.5	5.3
30°-40°	8.6	1.3
40°-50°	4.5	0.7
50°-60°	3.4	0.5
60°-70°	2.4	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°	630.1	96.8
0°-40°	638.7	98.1
0°-60°	646.6	99.4
0°-90°	650.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	650.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8866	8866	8866	8866	8866	
5°	5768	5709	5694	5733	5739	421
15°	501	510	511	502	495	172
25°	59	67	75	66	60	31
35°	12	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°	8866.0	8866.0	8866.0	8866.0	8866.0
2.5°	7997.5	8004.2	8006.8	8014.7	8044.0
5°	5768.4	5709.1	5693.7	5733.1	5738.7
7.5°	3417.0	3429.0	3472.9	3482.7	3447.4
10°	1875.1	1890.5	1888.3	1901.8	1917.2
12.5°	959.0	946.9	943.2	958.6	937.2
15°	501.1	510.4	510.8	501.8	495.1
17.5°	269.5	280.4	298.4	283.7	261.2
20°	159.1	168.9	184.3	172.3	162.5
22.5°	98.3	106.2	117.1	107.7	99.8
25°	58.9	66.8	75.1	66.4	59.7
27.5°	34.9	41.7	46.9	41.3	34.5
30°	22.5	26.3	29.7	25.9	22.9
32.5°	15.8	17.3	18.8	17.3	15.8
35°	11.6	12.4	13.1	12.4	11.3
37.5°	9.0	9.8	10.1	9.4	8.6
40°	7.5	7.9	8.3	7.9	7.5
42.5°	6.4	6.8	6.8	6.8	6.4
45°	5.6	5.6	6.0	5.6	5.6
47.5°	4.9	4.9	5.3	4.9	4.9
50°	4.5	4.5	4.5	4.5	4.5
52.5°	4.1	4.1	4.1	4.1	4.1
55°	3.8	3.8	3.8	3.8	3.8
57.5°	3.4	3.4	3.4	3.4	3.4
60°	3.0	3.0	3.0	3.0	3.0
62.5°	2.6	2.6	2.6	2.6	2.6
65°	2.3	2.3	2.3	2.3	2.3
67.5°	2.3	2.3	2.3	2.3	2.3
70°	1.9	1.9	1.9	1.9	1.9
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°	0.8	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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