

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: P777680

Luminaire Tested: LERS4D08D010-EC4DR300210IC9027-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P777680
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LERS4D08D010-EC4DR300210IC9027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 697.7 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
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



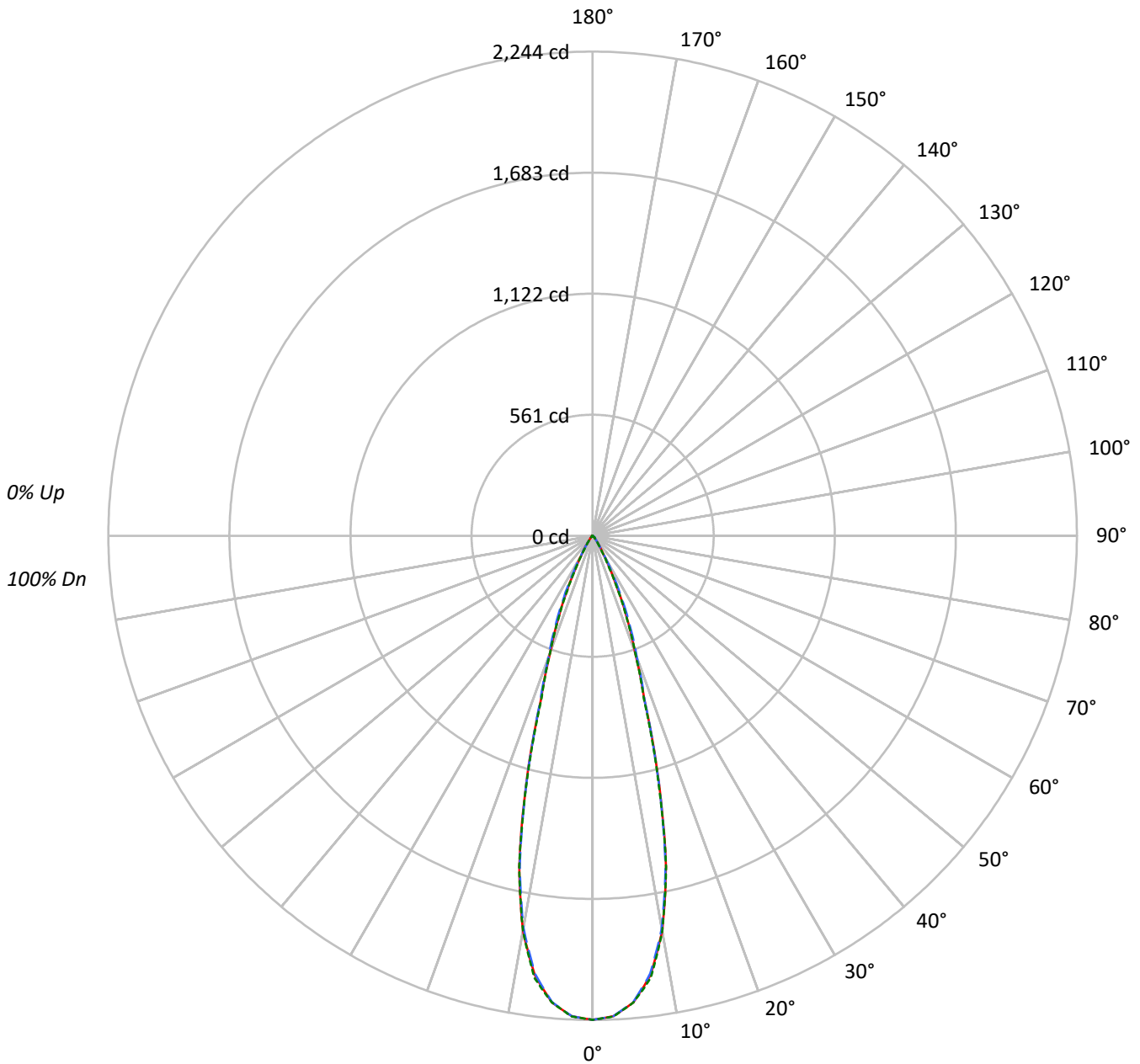
Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	171733	171733	171733
5°	166803	166603	166810
10°	144474	143448	144443
15°	94260	93753	93286
20°	46870	48629	46813
25°	23606	26621	23124
30°	9457	10297	8237
35°	4382	4196	3513
40°	1898	2098	1779
45°	1331	1656	1342
50°	453	1203	488
55°	267	494	280
60°	184	214	184
65°	127	127	127
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1656 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	28.3
10°-20°	317.7	45.5
20°-30°	137.3	19.7
30°-40°	31.3	4.5
40°-50°	10.8	1.5
50°-60°	2.6	0.4
60°-70°	0.7	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	652.3	93.5
0°-40°	683.6	98.0
0°-60°	697.0	99.9
0°-90°	697.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2244	2244	2244	2244	2244	
5°	2171	2169	2168	2173	2171	197
15°	1190	1175	1183	1179	1177	319
25°	280	290	315	283	274	134
35°	47	48	45	45	38	32
45°	12	15	15	15	12	9
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
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°	2243.6	2243.6	2243.6	2243.6	2243.6
2.5°	2228.7	2227.1	2228.0	2229.1	2229.5
5°	2170.9	2168.7	2168.3	2172.8	2171.0
7.5°	2054.2	2051.2	2046.7	2057.0	2066.5
10°	1858.8	1855.5	1845.6	1850.5	1858.4
12.5°	1570.3	1559.6	1559.4	1574.8	1572.7
15°	1189.5	1175.2	1183.1	1179.2	1177.2
17.5°	799.9	794.4	805.0	801.8	788.0
20°	575.4	576.8	597.0	586.9	574.7
22.5°	419.9	425.1	449.0	422.8	413.3
25°	279.5	290.1	315.2	282.8	273.8
27.5°	171.9	176.8	202.3	169.8	164.9
30°	107.0	104.5	116.5	100.0	93.2
32.5°	70.2	67.1	70.9	63.7	58.2
35°	46.9	47.9	44.9	44.6	37.6
37.5°	29.3	33.7	29.7	31.7	24.2
40°	19.0	24.5	21.0	23.3	17.8
42.5°	15.5	18.9	17.3	18.4	15.9
45°	12.3	15.3	15.3	15.3	12.4
47.5°	6.8	10.3	13.1	10.5	7.3
50°	3.8	5.2	10.1	5.4	4.1
52.5°	2.6	3.0	6.9	3.1	2.8
55°	2.0	2.1	3.7	2.2	2.1
57.5°	1.5	1.7	2.0	1.7	1.5
60°	1.2	1.2	1.4	1.3	1.2
62.5°	0.9	0.9	1.0	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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