

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: P777621

Luminaire Tested: LERS4D08D010-EC4DR150210IC9040-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P777621
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-EC4DR150210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW 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: 862.2 lumens
Efficiency: N/A
Efficacy: 96.9 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



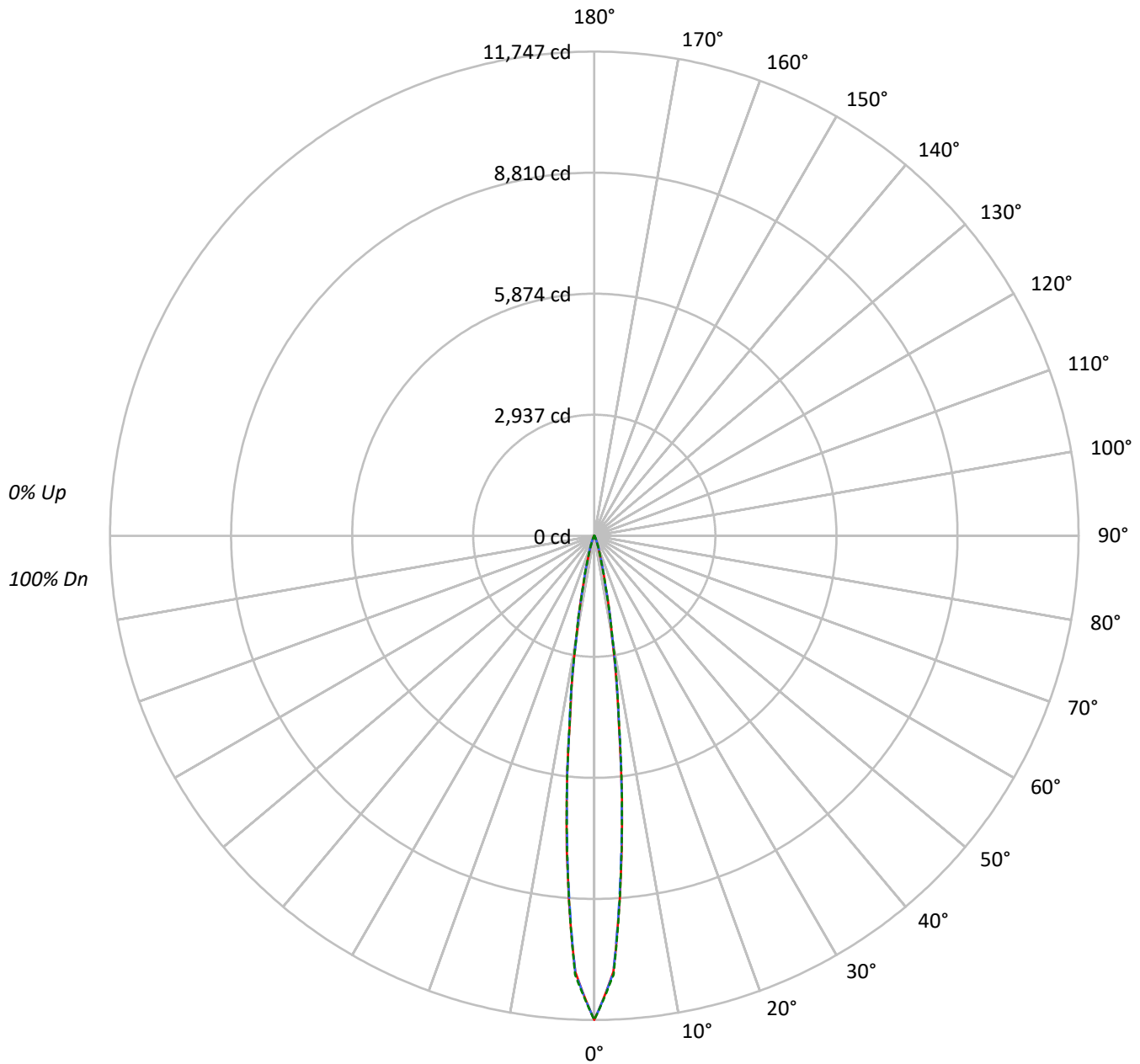
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	116	114	112	111	113	112	110	109		108	107	106		104	103	103		101	100	100
2	113	110	107	105	111	108	106	104		105	103	102		102	101	100		100	98	98
3	110	106	103	101	108	105	102	100		103	100	99		100	99	97		98	97	96
4	108	103	100	98	106	102	99	97		100	98	96		99	97	95		97	95	94
5	106	101	98	95	104	100	97	95		98	96	94		97	95	93		96	94	92
6	104	99	95	93	102	98	95	93		97	94	92		96	93	92		95	93	91
7	102	97	94	91	101	96	93	91		95	93	91		94	92	90		93	91	90
8	100	95	92	90	99	95	92	90		94	91	89		93	91	89		92	90	89
9	99	93	90	88	98	93	90	88		92	90	88		92	89	88		91	89	87
10	97	92	89	87	96	92	89	87		91	89	87		91	88	87		90	88	86

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1321727	1321727	1321727
5°	776709	766648	772715
10°	231813	233437	237011
15°	57664	58785	56969
20°	17248	19981	17616
25°	6084	7751	6162
30°	2231	2943	2269
35°	1118	1264	1082
40°	703	774	703
45°	525	560	525
50°	417	417	417
55°	348	348	348
60°	281	281	281
65°	214	214	214
70°	183	183	183
75°	113	113	151
80°	79	79	79
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.2	64.9
10°-20°	230.0	26.7
20°-30°	45.7	5.3
30°-40°	11.4	1.3
40°-50°	6.0	0.7
50°-60°	4.5	0.5
60°-70°	3.2	0.4
70°-80°	1.8	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°	834.8	96.8
0°-40°	846.2	98.1
0°-60°	856.7	99.4
0°-90°	862.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	862.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11747	11747	11747	11747	11747	
5°	7643	7564	7544	7596	7603	558
15°	664	676	677	665	656	228
25°	78	88	100	88	79	41
35°	15	16	17	16	15	10
45°	8	8	8	8	8	6
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	2	2	2	2	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°	11746.6	11746.6	11746.6	11746.6	11746.6
2.5°	10595.9	10604.9	10608.3	10618.8	10657.6
5°	7642.6	7564.0	7543.6	7595.9	7603.3
7.5°	4527.2	4543.1	4601.3	4614.2	4567.5
10°	2484.4	2504.8	2501.8	2519.7	2540.1
12.5°	1270.5	1254.6	1249.6	1270.0	1241.7
15°	663.9	676.3	676.8	664.9	655.9
17.5°	357.0	371.5	395.3	375.9	346.1
20°	210.8	223.8	244.2	228.2	215.3
22.5°	130.3	140.7	155.1	142.7	132.3
25°	78.1	88.5	99.5	88.0	79.1
27.5°	46.2	55.2	62.2	54.7	45.7
30°	29.8	34.8	39.3	34.3	30.3
32.5°	20.9	22.9	24.9	22.9	20.9
35°	15.4	16.4	17.4	16.4	14.9
37.5°	11.9	12.9	13.4	12.4	11.4
40°	9.9	10.4	10.9	10.4	9.9
42.5°	8.5	9.0	9.0	9.0	8.5
45°	7.5	7.5	8.0	7.5	7.5
47.5°	6.5	6.5	7.0	6.5	6.5
50°	6.0	6.0	6.0	6.0	6.0
52.5°	5.5	5.5	5.5	5.5	5.5
55°	5.0	5.0	5.0	5.0	5.0
57.5°	4.5	4.5	4.5	4.5	4.5
60°	4.0	4.0	4.0	4.0	4.0
62.5°	3.5	3.5	3.5	3.5	3.5
65°	3.0	3.0	3.0	3.0	3.0
67.5°	3.0	3.0	3.0	3.0	3.0
70°	2.5	2.5	2.5	2.5	2.5
72.5°	2.0	2.0	2.0	2.0	2.0
75°	1.5	1.5	1.5	1.5	2.0
77.5°	1.5	1.5	1.5	1.5	1.5
80°	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)