

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: P778627

Luminaire Tested: LER4D02D010-EC4DR300210IC9035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778627
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: LER4D02D010-EC4DR300210IC9035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 359.5 lumens
Efficiency: N/A
Efficacy: 70.5 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): 5.1
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



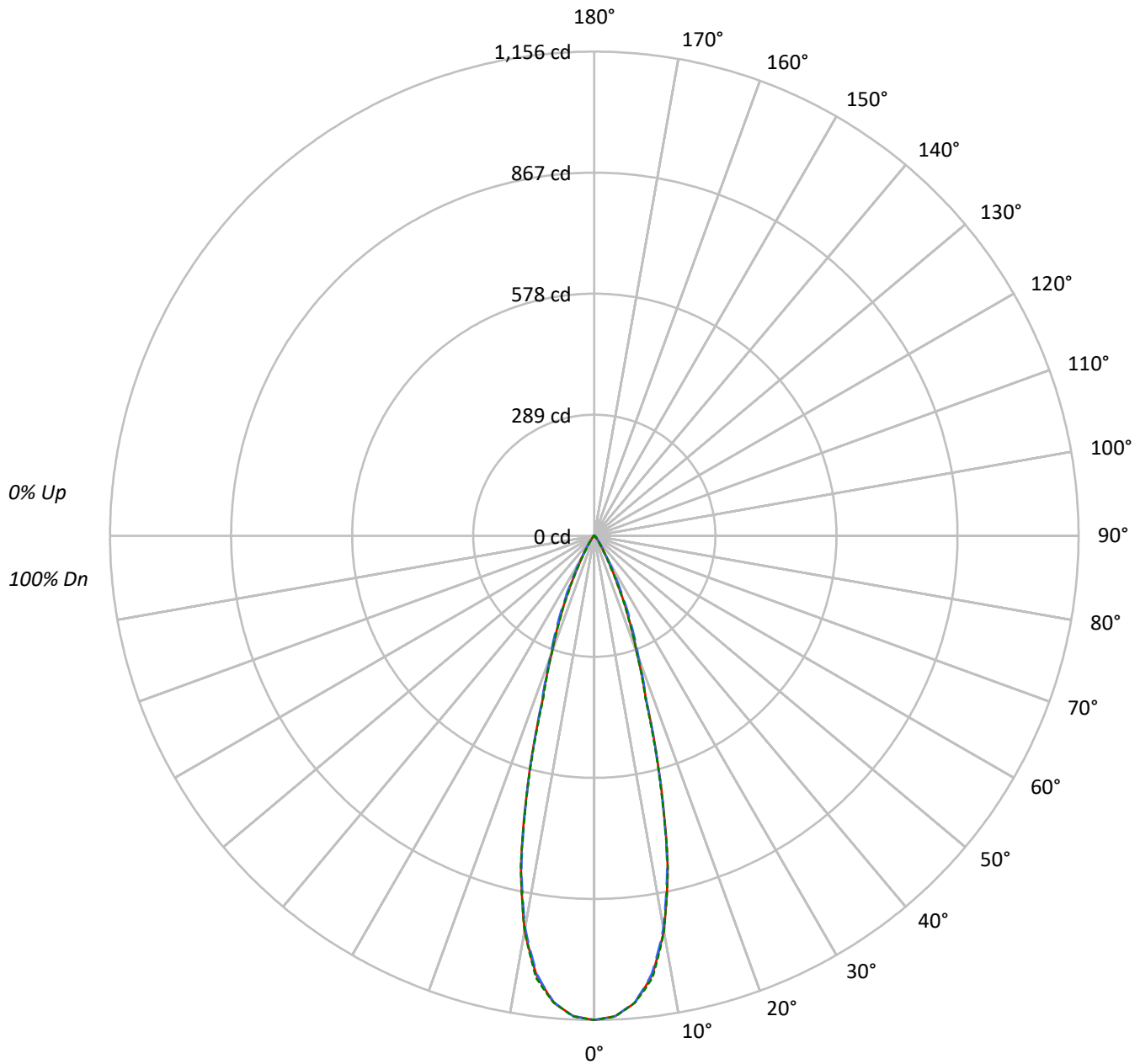
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					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	115	113	111	109	112	110	109	107		106	105	104		103	102	101		99	99	98
2	111	107	104	101	109	105	102	100		102	100	98		99	97	96		97	95	94
3	107	102	98	95	105	101	97	94		98	95	93		96	93	91		94	92	90
4	103	98	93	90	102	96	93	90		94	91	89		93	90	88		91	89	87
5	100	94	89	86	98	93	89	86		91	88	85		90	86	84		88	86	83
6	97	90	85	82	95	89	85	82		88	84	81		87	83	81		85	83	80
7	94	87	82	79	92	86	82	79		85	81	78		84	81	78		83	80	78
8	91	84	79	76	90	83	79	76		82	78	76		81	78	75		80	77	75
9	88	81	76	73	87	80	76	73		80	76	73		79	75	73		78	75	73
10	85	78	74	71	85	78	74	71		77	73	71		76	73	71		76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	88477	88477	88477
5°	85941	85841	85941
10°	74436	73908	74421
15°	48568	48307	48061
20°	24152	25056	24119
25°	12162	13716	11917
30°	4870	5303	4242
35°	2261	2159	1813
40°	969	1079	919
45°	693	855	693
50°	238	619	250
55°	133	254	147
60°	92	107	92
65°	54	54	54
70°	45	22	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 855 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	28.3
10°-20°	163.7	45.5
20°-30°	70.7	19.7
30°-40°	16.1	4.5
40°-50°	5.5	1.5
50°-60°	1.4	0.4
60°-70°	0.3	0.1
70°-80°	0.0	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°	336.1	93.5
0°-40°	352.2	98.0
0°-60°	359.1	99.9
0°-90°	359.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	359.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1156	1156	1156	1156	1156	
5°	1118	1117	1117	1120	1118	102
15°	613	606	610	608	606	164
25°	144	150	162	146	141	69
35°	24	25	23	23	19	16
45°	6	8	8	8	6	5
55°	1	1	2	1	1	1
65°	0	0	0	0	0	0
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°	1155.9	1155.9	1155.9	1155.9	1155.9
2.5°	1148.3	1147.5	1147.9	1148.5	1148.7
5°	1118.5	1117.4	1117.2	1119.5	1118.5
7.5°	1058.4	1056.9	1054.5	1059.8	1064.7
10°	957.7	956.0	950.9	953.4	957.5
12.5°	809.1	803.6	803.4	811.4	810.3
15°	612.9	605.5	609.6	607.6	606.5
17.5°	412.1	409.3	414.8	413.1	406.0
20°	296.5	297.2	307.6	302.4	296.1
22.5°	216.3	219.0	231.3	217.9	212.9
25°	144.0	149.5	162.4	145.7	141.1
27.5°	88.6	91.1	104.2	87.4	85.0
30°	55.1	53.9	60.0	51.5	48.0
32.5°	36.2	34.5	36.6	32.8	30.0
35°	24.2	24.7	23.1	23.0	19.4
37.5°	15.1	17.4	15.3	16.3	12.5
40°	9.7	12.6	10.8	12.0	9.2
42.5°	8.0	9.7	8.9	9.5	8.2
45°	6.4	7.9	7.9	7.9	6.4
47.5°	3.5	5.3	6.8	5.4	3.7
50°	2.0	2.7	5.2	2.8	2.1
52.5°	1.4	1.5	3.6	1.6	1.4
55°	1.0	1.1	1.9	1.1	1.1
57.5°	0.8	0.9	1.0	0.9	0.8
60°	0.6	0.6	0.7	0.7	0.6
62.5°	0.5	0.5	0.5	0.5	0.5
65°	0.3	0.3	0.3	0.3	0.3
67.5°	0.2	0.2	0.2	0.2	0.2
70°	0.2	0.1	0.1	0.1	0.2
72.5°	0.1	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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)