

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: P785135

Luminaire Tested: LER4DD50D010-EC4DR3040509040-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P785135
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: LER4DD50D010-EC4DR3040509040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4459.3 lumens
Efficiency: N/A
Efficacy: 94.9 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): 47
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

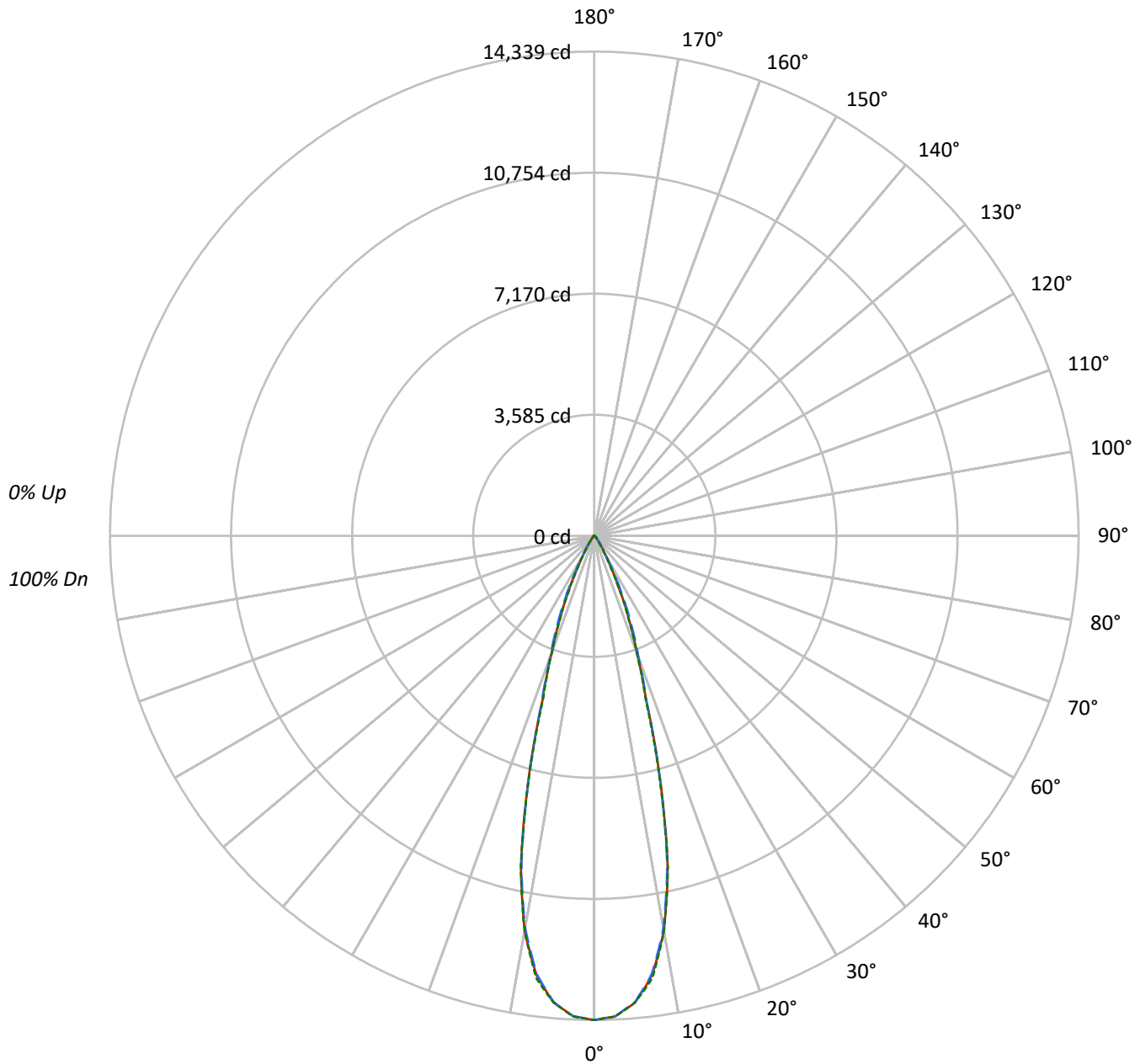


Downlight

TEST NUMBER: P785135

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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	98	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	94	89	86	98	93	89	86	91	88	85		90	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	94	87	82	79	92	86	82	79	85	81	78		84	81	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1097556	1097556	1097556
5°	1066043	1064798	1066096
10°	923356	916842	923138
15°	602441	599208	596197
20°	299570	310811	299163
25°	150898	170163	147807
30°	60420	65829	52642
35°	28023	26837	22501
40°	12100	13439	11391
45°	8530	10598	8617
50°	2929	7716	3096
55°	1695	3189	1788
60°	1179	1408	1179
65°	761	761	761
70°	470	313	470
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 10598 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1260.9	28.3
10°-20°	2030.7	45.5
20°-30°	877.5	19.7
30°-40°	200.0	4.5
40°-50°	68.7	1.5
50°-60°	16.8	0.4
60°-70°	4.3	0.1
70°-80°	0.5	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°	4169.1	93.5
0°-40°	4369.1	98.0
0°-60°	4454.6	99.9
0°-90°	4459.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4459.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14339	14339	14339	14339	14339	
5°	13874	13861	13858	13887	13875	1262
15°	7602	7511	7562	7537	7524	2036
25°	1787	1854	2015	1807	1750	855
35°	300	306	287	285	241	203
45°	79	98	98	98	80	56
55°	13	13	24	14	13	12
65°	4	4	4	4	4	4
75°	0	0	1	0	0	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°	14339.0	14339.0	14339.0	14339.0	14339.0
2.5°	14243.9	14234.1	14239.7	14246.8	14249.6
5°	13874.3	13861.0	13858.1	13887.0	13875.0
7.5°	13128.8	13109.8	13080.9	13146.4	13207.7
10°	11879.9	11858.8	11796.1	11827.1	11877.1
12.5°	10036.2	9967.9	9966.5	10065.0	10051.6
15°	7602.4	7510.9	7561.6	7537.0	7523.6
17.5°	5112.4	5077.2	5144.8	5124.4	5036.4
20°	3677.7	3686.8	3815.7	3750.9	3672.7
22.5°	2683.6	2716.7	2869.5	2702.6	2641.4
25°	1786.7	1854.3	2014.8	1807.2	1750.1
27.5°	1098.9	1129.9	1292.5	1084.9	1053.9
30°	683.6	668.1	744.8	639.2	595.6
32.5°	448.4	428.7	453.4	406.9	371.7
35°	299.9	306.2	287.2	285.1	240.8
37.5°	187.3	215.4	190.1	202.8	154.9
40°	121.1	156.3	134.5	148.5	114.0
42.5°	99.3	120.4	110.5	117.6	101.4
45°	78.8	97.9	97.9	97.9	79.6
47.5°	43.6	65.5	83.8	66.9	46.5
50°	24.6	33.1	64.8	34.5	26.0
52.5°	16.9	19.0	44.4	19.7	17.6
55°	12.7	13.4	23.9	14.1	13.4
57.5°	9.9	10.6	12.7	10.6	9.9
60°	7.7	7.7	9.2	8.4	7.7
62.5°	5.6	5.6	6.3	5.6	5.6
65°	4.2	4.2	4.2	4.2	4.2
67.5°	2.1	2.8	2.8	2.8	2.8
70°	2.1	1.4	1.4	1.4	2.1
72.5°	1.4	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	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



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Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)