

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: P781003

Luminaire Tested: LER4D35BD010-EC4DR3020359035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781003
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: LER4D35BD010-EC4DR3020359035-4LBS1MW
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: 3155.4 lumens
Efficiency: N/A
Efficacy: 102.4 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): 30.8
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

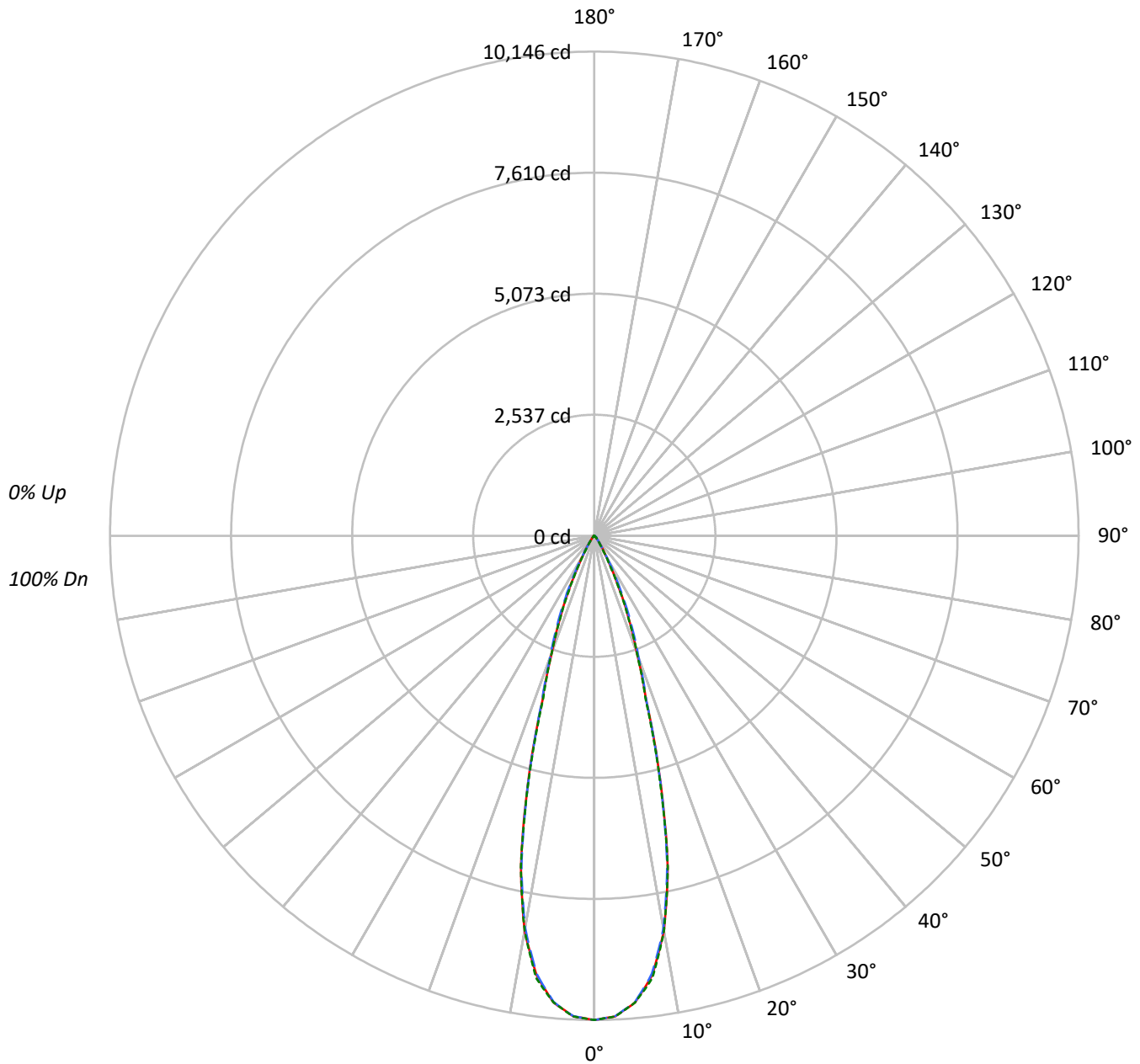


Downlight

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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				10
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°	776609	776609	776609
5°	754312	753436	754351
10°	653350	648741	653194
15°	426275	423985	421853
20°	211964	219922	211687
25°	106778	120409	104591
30°	42752	46579	37245
35°	19828	18987	15923
40°	8563	9502	8064
45°	6040	7491	6094
50°	2072	5454	2191
55°	1201	2255	1268
60°	842	995	842
65°	543	543	543
70°	336	224	336
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 7491 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	892.2	28.3
10°-20°	1436.9	45.5
20°-30°	620.9	19.7
30°-40°	141.5	4.5
40°-50°	48.6	1.5
50°-60°	11.9	0.4
60°-70°	3.1	0.1
70°-80°	0.3	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°	2950.0	93.5
0°-40°	3091.5	98.0
0°-60°	3151.9	99.9
0°-90°	3155.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3155.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10146	10146	10146	10146	10146	
5°	9817	9808	9806	9826	9818	893
15°	5379	5315	5350	5333	5324	1440
25°	1264	1312	1426	1279	1238	605
35°	212	217	203	202	170	144
45°	56	69	69	69	56	40
55°	9	10	17	10	10	9
65°	3	3	3	3	3	3
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°	10146.0	10146.0	10146.0	10146.0	10146.0
2.5°	10078.7	10071.8	10075.7	10080.7	10082.7
5°	9817.2	9807.7	9805.8	9826.2	9817.7
7.5°	9289.7	9276.2	9255.8	9302.1	9345.5
10°	8406.0	8391.1	8346.7	8368.6	8404.0
12.5°	7101.4	7053.1	7052.1	7121.8	7112.3
15°	5379.3	5314.6	5350.4	5333.0	5323.5
17.5°	3617.4	3592.5	3640.4	3625.9	3563.6
20°	2602.2	2608.7	2699.9	2654.1	2598.8
22.5°	1898.9	1922.3	2030.4	1912.3	1869.0
25°	1264.3	1312.1	1425.7	1278.7	1238.4
27.5°	777.6	799.5	914.6	767.6	745.7
30°	483.7	472.7	527.0	452.3	421.4
32.5°	317.3	303.4	320.8	287.9	263.0
35°	212.2	216.7	203.2	201.7	170.4
37.5°	132.5	152.4	134.5	143.5	109.6
40°	85.7	110.6	95.1	105.1	80.7
42.5°	70.2	85.2	78.2	83.2	71.7
45°	55.8	69.2	69.2	69.2	56.3
47.5°	30.9	46.3	59.3	47.3	32.9
50°	17.4	23.4	45.8	24.4	18.4
52.5°	12.0	13.4	31.4	13.9	12.5
55°	9.0	9.5	16.9	10.0	9.5
57.5°	7.0	7.5	9.0	7.5	7.0
60°	5.5	5.5	6.5	6.0	5.5
62.5°	4.0	4.0	4.5	4.0	4.0
65°	3.0	3.0	3.0	3.0	3.0
67.5°	1.5	2.0	2.0	2.0	2.0
70°	1.5	1.0	1.0	1.0	1.5
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)