

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: P779867

Luminaire Tested: LER4D15D010-EC4DR300215IC9027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779867
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: LER4D15D010-EC4DR300215IC9027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1270.7 lumens
Efficiency: N/A
Efficacy: 80.4 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): 15.8
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



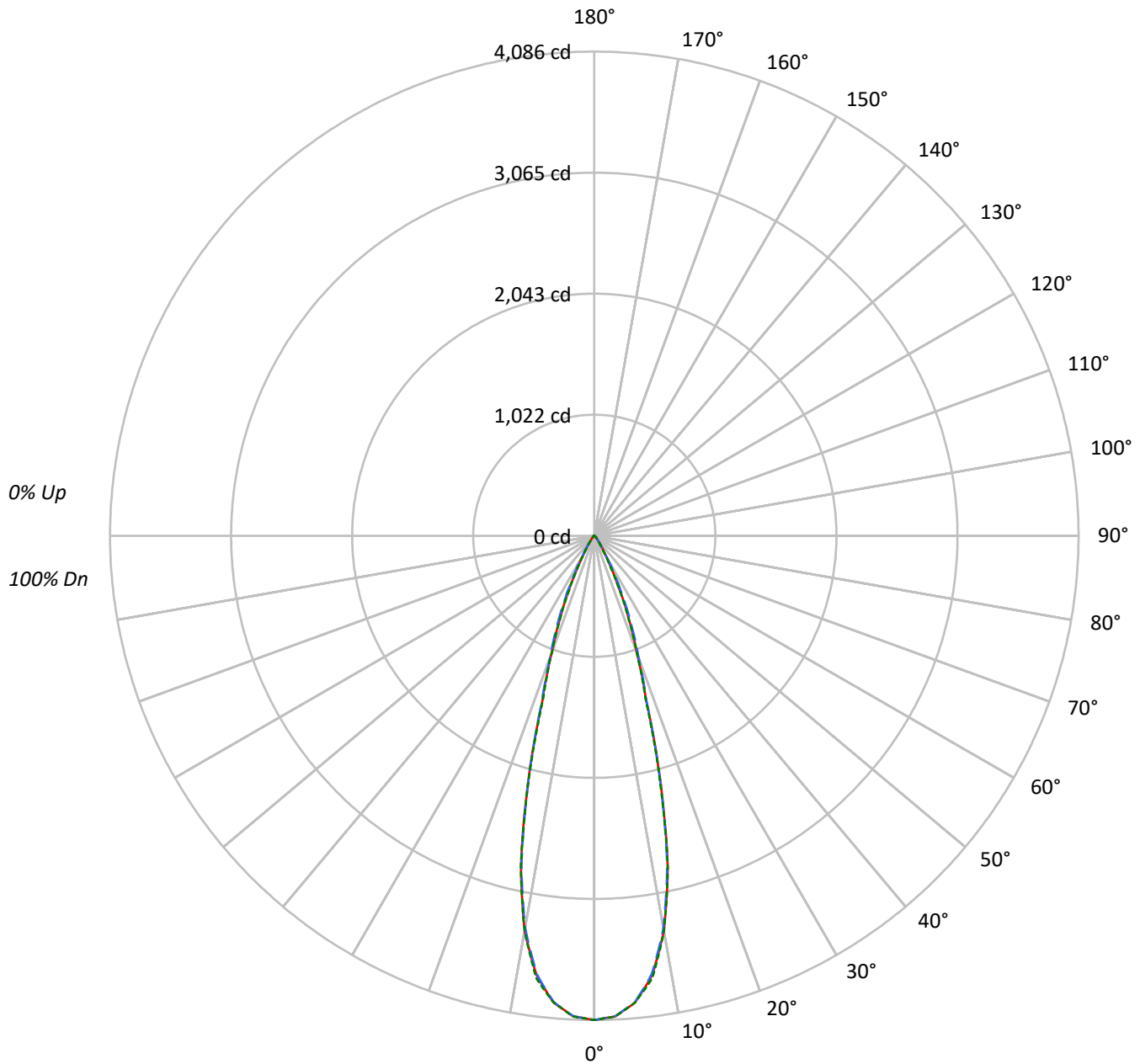
Downlight



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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					10
RW	70	50	30	10	70	50	30	10	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	100		
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96		
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92		
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89		
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85		
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82		
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79		
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77		
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74		
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72		
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	312764	312764	312764
5°	303778	303424	303793
10°	263120	261262	263058
15°	171673	170754	169890
20°	85366	88567	85252
25°	42997	48495	42118
30°	17217	18755	14999
35°	7989	7653	6410
40°	3447	3827	3247
45°	2436	3020	2457
50°	834	2191	881
55°	480	907	507
60°	337	398	337
65°	217	217	217
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 3020 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.3	28.3
10°-20°	578.7	45.5
20°-30°	250.1	19.7
30°-40°	57.0	4.5
40°-50°	19.6	1.5
50°-60°	4.8	0.4
60°-70°	1.2	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°	1188.0	93.5
0°-40°	1245.0	98.0
0°-60°	1269.4	99.9
0°-90°	1270.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1270.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4086	4086	4086	4086	4086	
5°	3954	3950	3949	3957	3954	360
15°	2166	2140	2155	2148	2144	580
25°	509	528	574	515	499	244
35°	86	87	82	81	69	58
45°	22	28	28	28	23	16
55°	4	4	7	4	4	4
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°	4086.1	4086.1	4086.1	4086.1	4086.1
2.5°	4059.0	4056.1	4057.8	4059.8	4060.6
5°	3953.6	3949.8	3949.0	3957.3	3953.8
7.5°	3741.2	3735.8	3727.6	3746.2	3763.7
10°	3385.3	3379.3	3361.4	3370.3	3384.5
12.5°	2859.9	2840.5	2840.1	2868.1	2864.3
15°	2166.4	2140.3	2154.8	2147.7	2143.9
17.5°	1456.8	1446.8	1466.1	1460.2	1435.2
20°	1048.0	1050.6	1087.3	1068.8	1046.6
22.5°	764.7	774.2	817.7	770.2	752.7
25°	509.1	528.4	574.2	515.0	498.7
27.5°	313.2	322.0	368.3	309.2	300.3
30°	194.8	190.4	212.2	182.1	169.7
32.5°	127.8	122.2	129.2	116.0	105.9
35°	85.5	87.3	81.9	81.2	68.6
37.5°	53.3	61.4	54.1	57.8	44.1
40°	34.5	44.5	38.3	42.3	32.5
42.5°	28.3	34.3	31.5	33.5	28.9
45°	22.5	27.9	27.9	27.9	22.7
47.5°	12.4	18.7	23.9	19.1	13.2
50°	7.0	9.5	18.4	9.9	7.4
52.5°	4.8	5.4	12.7	5.6	5.0
55°	3.6	3.8	6.8	4.0	3.8
57.5°	2.8	3.0	3.6	3.0	2.8
60°	2.2	2.2	2.6	2.4	2.2
62.5°	1.6	1.6	1.8	1.6	1.6
65°	1.2	1.2	1.2	1.2	1.2
67.5°	0.6	0.8	0.8	0.8	0.8
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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)