

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: P780179

Luminaire Tested: LER4D20D010-EC4DR3020359027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780179
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: LER4D20D010-EC4DR3020359027-4LBS1MW
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: 1744.9 lumens
Efficiency: N/A
Efficacy: 75.5 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): 23.1
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



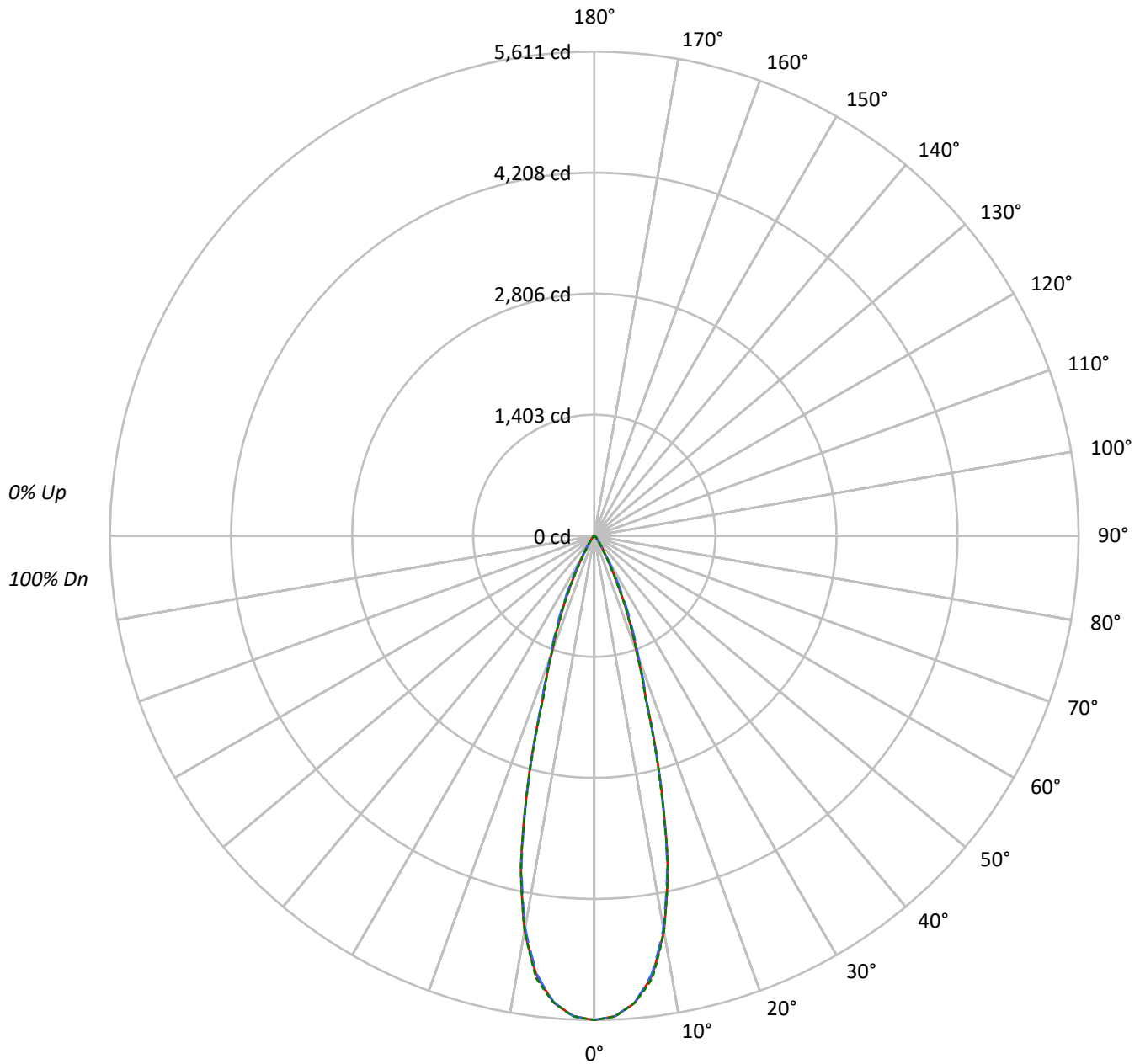
Downlight



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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				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°	429462	429462	429462
5°	417134	416650	417157
10°	361301	358752	361215
15°	235734	234466	233285
20°	117215	121622	117060
25°	59043	66585	57836
30°	23643	25764	20594
35°	10961	10503	8802
40°	4736	5256	4456
45°	3334	4146	3367
50°	1143	3013	1215
55°	667	1241	694
60°	459	551	459
65°	308	308	308
70°	179	134	179
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4146 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.4	28.3
10°-20°	794.6	45.5
20°-30°	343.4	19.7
30°-40°	78.3	4.5
40°-50°	26.9	1.5
50°-60°	6.5	0.4
60°-70°	1.7	0.1
70°-80°	0.2	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°	1631.3	93.5
0°-40°	1709.6	98.0
0°-60°	1743.0	99.9
0°-90°	1744.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1744.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5611	5611	5611	5611	5611	
5°	5429	5424	5423	5434	5429	494
15°	2975	2939	2959	2949	2944	797
25°	699	726	788	707	685	335
35°	117	120	112	112	94	80
45°	31	38	38	38	31	22
55°	5	5	9	6	5	5
65°	2	2	2	2	2	2
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°	5610.7	5610.7	5610.7	5610.7	5610.7
2.5°	5573.6	5569.7	5571.9	5574.7	5575.8
5°	5428.9	5423.7	5422.6	5433.9	5429.2
7.5°	5137.2	5129.8	5118.5	5144.1	5168.1
10°	4648.5	4640.3	4615.7	4627.9	4647.4
12.5°	3927.1	3900.4	3899.8	3938.4	3933.1
15°	2974.8	2939.0	2958.8	2949.1	2943.9
17.5°	2000.5	1986.7	2013.1	2005.2	1970.7
20°	1439.0	1442.6	1493.1	1467.7	1437.1
22.5°	1050.1	1063.1	1122.8	1057.6	1033.5
25°	699.1	725.6	788.4	707.1	684.8
27.5°	430.0	442.1	505.7	424.5	412.4
30°	267.5	261.4	291.5	250.2	233.0
32.5°	175.5	167.8	177.4	159.2	145.5
35°	117.3	119.8	112.4	111.6	94.2
37.5°	73.3	84.3	74.4	79.4	60.6
40°	47.4	61.1	52.6	58.1	44.6
42.5°	38.8	47.1	43.3	46.0	39.6
45°	30.8	38.3	38.3	38.3	31.1
47.5°	17.1	25.6	32.8	26.2	18.2
50°	9.6	12.9	25.3	13.5	10.2
52.5°	6.6	7.4	17.4	7.7	6.9
55°	5.0	5.2	9.3	5.5	5.2
57.5°	3.8	4.1	5.0	4.1	3.8
60°	3.0	3.0	3.6	3.3	3.0
62.5°	2.2	2.2	2.5	2.2	2.2
65°	1.7	1.7	1.7	1.7	1.7
67.5°	0.8	1.1	1.1	1.1	1.1
70°	0.8	0.6	0.6	0.6	0.8
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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)