

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: P780187

Luminaire Tested: LER4D20D010-EC4DR3020359035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780187
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-EC4DR3020359035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

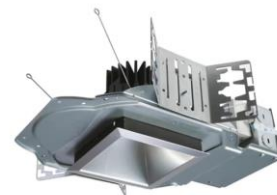
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1902.0 lumens
Efficiency: N/A
Efficacy: 82.3 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



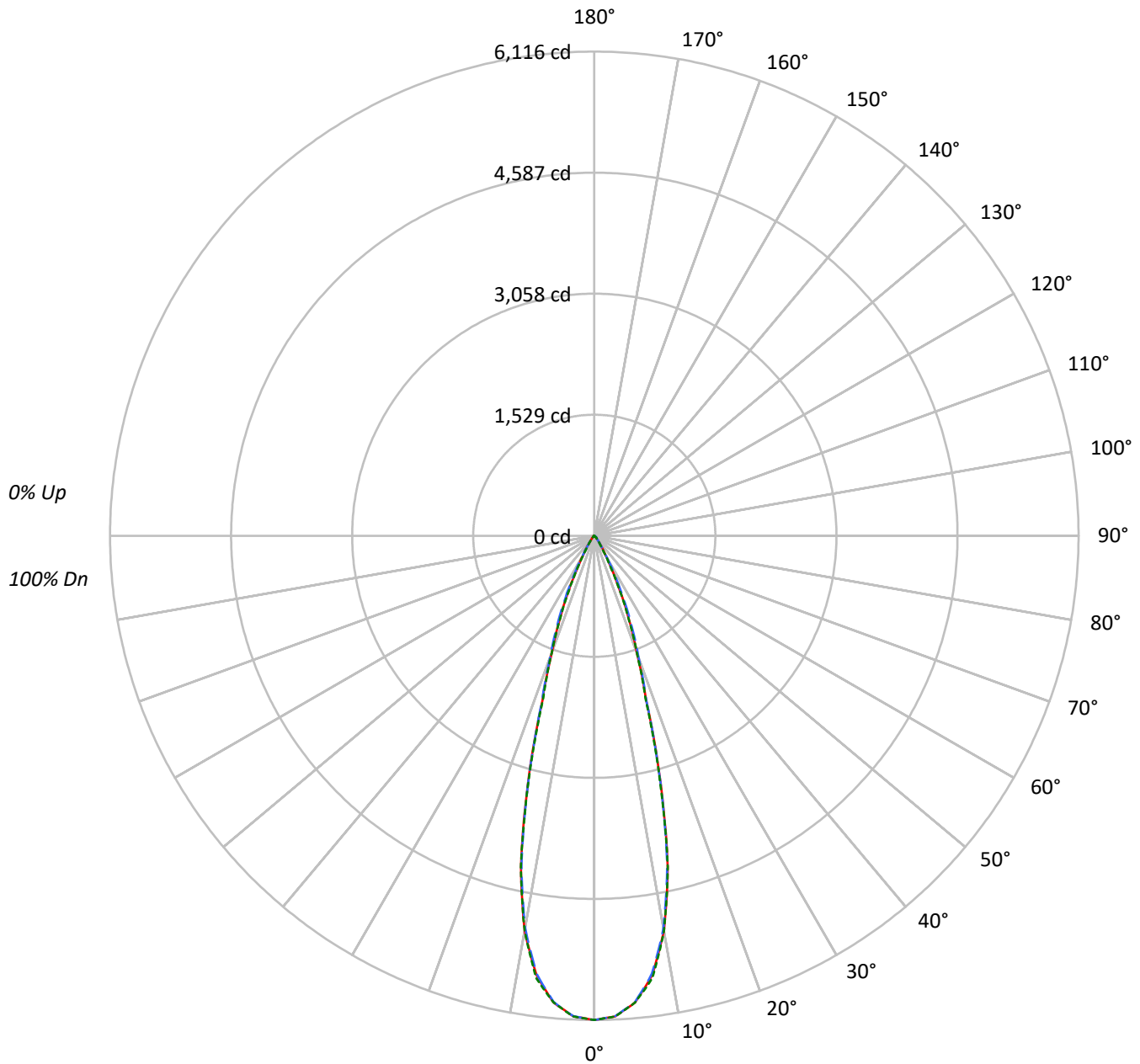
Downlight



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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°	468139	468139	468139
5°	454699	454169	454722
10°	393836	391062	393743
15°	256963	255584	254293
20°	127772	132569	127600
25°	64364	72582	63047
30°	25773	28080	22450
35°	11951	11447	9597
40°	5156	5735	4856
45°	3637	4514	3670
50°	1250	3287	1322
55°	721	1361	761
60°	505	597	505
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4514 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	537.8	28.3
10°-20°	866.1	45.5
20°-30°	374.3	19.7
30°-40°	85.3	4.5
40°-50°	29.3	1.5
50°-60°	7.1	0.4
60°-70°	1.9	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°	1778.2	93.5
0°-40°	1863.5	98.0
0°-60°	1900.0	99.9
0°-90°	1902.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1902.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6116	6116	6116	6116	6116	
5°	5918	5912	5911	5923	5918	538
15°	3243	3204	3225	3215	3209	868
25°	762	791	859	771	746	365
35°	128	131	122	122	103	87
45°	34	42	42	42	34	24
55°	5	6	10	6	6	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°	6116.0	6116.0	6116.0	6116.0	6116.0
2.5°	6075.5	6071.2	6073.6	6076.7	6077.9
5°	5917.8	5912.1	5910.9	5923.2	5918.1
7.5°	5599.8	5591.7	5579.4	5607.3	5633.4
10°	5067.1	5058.1	5031.4	5044.6	5065.9
12.5°	4280.7	4251.6	4251.0	4293.0	4287.3
15°	3242.7	3203.6	3225.3	3214.7	3209.0
17.5°	2180.6	2165.6	2194.4	2185.7	2148.2
20°	1568.6	1572.5	1627.5	1599.9	1566.5
22.5°	1144.6	1158.7	1223.9	1152.8	1126.7
25°	762.1	790.9	859.4	770.8	746.5
27.5°	468.7	482.0	551.3	462.7	449.5
30°	291.6	285.0	317.7	272.7	254.0
32.5°	191.3	182.9	193.4	173.5	158.5
35°	127.9	130.6	122.5	121.6	102.7
37.5°	79.9	91.9	81.1	86.5	66.1
40°	51.6	66.6	57.4	63.4	48.6
42.5°	42.3	51.3	47.2	50.1	43.3
45°	33.6	41.7	41.7	41.7	33.9
47.5°	18.6	27.9	35.8	28.5	19.8
50°	10.5	14.1	27.6	14.7	11.1
52.5°	7.2	8.1	18.9	8.4	7.5
55°	5.4	5.7	10.2	6.0	5.7
57.5°	4.2	4.5	5.4	4.5	4.2
60°	3.3	3.3	3.9	3.6	3.3
62.5°	2.4	2.4	2.7	2.4	2.4
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.2	1.2	1.2	1.2
70°	0.9	0.6	0.6	0.6	0.9
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)