

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: P778939

Luminaire Tested: LER4D05D010-EC4DR300210IC9035-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778939
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: LER4D05D010-EC4DR300210IC9035-4LBS1MW
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: 655.4 lumens
Efficiency: N/A
Efficacy: 87.4 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): 7.5
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



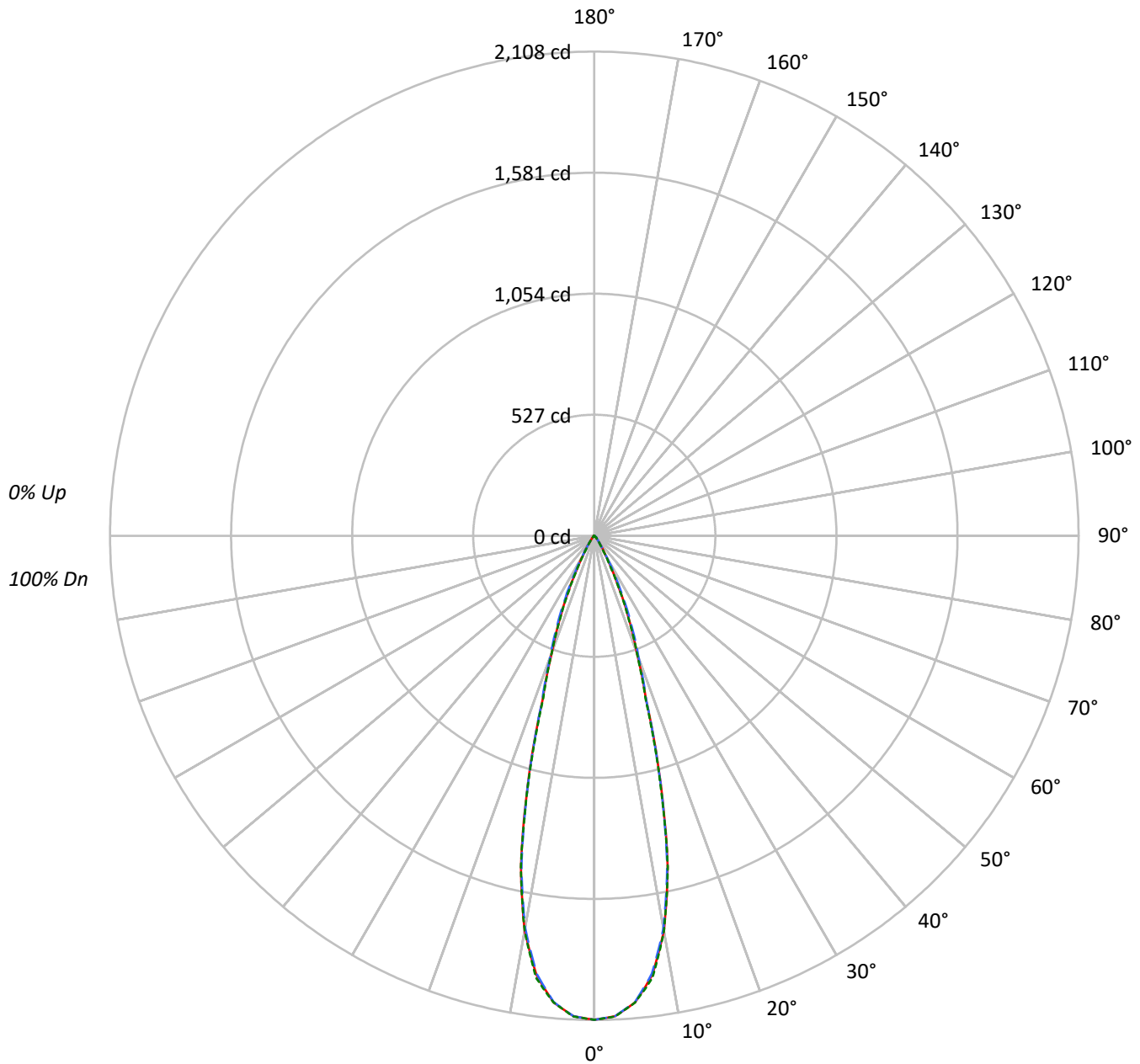
Downlight



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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
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	87	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°	161315	161315	161315
5°	156684	156499	156691
10°	135714	134750	135683
15°	88547	88071	87628
20°	44027	45680	43970
25°	22178	25016	21731
30°	8883	9678	7734
35°	4121	3943	3308
40°	1779	1978	1679
45°	1256	1559	1267
50°	429	1131	453
55°	254	467	254
60°	168	199	168
65°	109	109	109
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 1559 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.3	28.3
10°-20°	298.5	45.5
20°-30°	129.0	19.7
30°-40°	29.4	4.5
40°-50°	10.1	1.5
50°-60°	2.5	0.4
60°-70°	0.6	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°	612.8	93.5
0°-40°	642.2	98.0
0°-60°	654.7	99.9
0°-90°	655.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	655.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2039	2037	2037	2041	2039	185
15°	1117	1104	1111	1108	1106	299
25°	263	273	296	266	257	126
35°	44	45	42	42	35	30
45°	12	14	14	14	12	8
55°	2	2	4	2	2	2
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°	2107.5	2107.5	2107.5	2107.5	2107.5
2.5°	2093.5	2092.1	2092.9	2093.9	2094.4
5°	2039.2	2037.2	2036.8	2041.1	2039.3
7.5°	1929.6	1926.8	1922.6	1932.2	1941.2
10°	1746.1	1743.0	1733.7	1738.3	1745.7
12.5°	1475.1	1465.0	1464.8	1479.3	1477.4
15°	1117.4	1103.9	1111.4	1107.7	1105.8
17.5°	751.4	746.2	756.2	753.1	740.3
20°	540.5	541.9	560.8	551.3	539.8
22.5°	394.4	399.3	421.7	397.2	388.2
25°	262.6	272.6	296.2	265.6	257.3
27.5°	161.5	166.1	190.0	159.5	154.9
30°	100.5	98.2	109.5	94.0	87.5
32.5°	65.9	63.0	66.6	59.8	54.7
35°	44.1	45.0	42.2	41.9	35.4
37.5°	27.5	31.7	28.0	29.8	22.7
40°	17.8	23.0	19.8	21.8	16.8
42.5°	14.6	17.7	16.3	17.3	14.9
45°	11.6	14.4	14.4	14.4	11.7
47.5°	6.4	9.6	12.3	9.9	6.8
50°	3.6	4.9	9.5	5.0	3.8
52.5°	2.5	2.8	6.5	2.9	2.6
55°	1.9	1.9	3.5	2.1	1.9
57.5°	1.4	1.5	1.9	1.5	1.4
60°	1.1	1.1	1.3	1.3	1.1
62.5°	0.8	0.8	0.9	0.8	0.8
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.4	0.4	0.4	0.4
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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)