

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: P750434

Luminaire Tested: LD4D55D010-EU4DR6555659027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P750434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D55D010-EU4DR6555659027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4654.9 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

Input Watts (W): 58.2
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

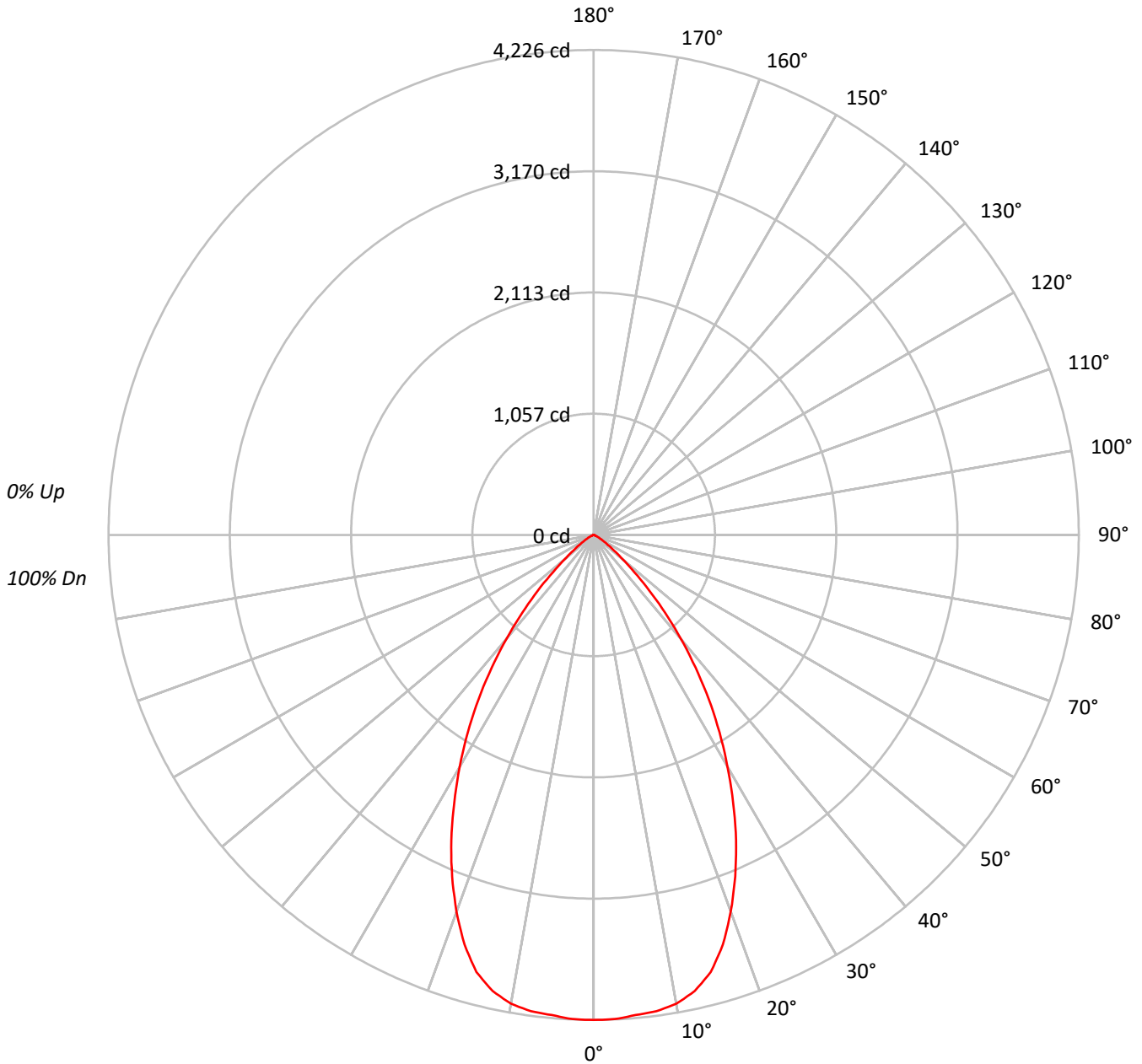


Downlight

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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			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93			93
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85			85
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78			78
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72			72
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66			66
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61			61
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56			56
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52			52
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49			49
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46			46

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	246844
5°	246222
10°	246008
15°	238428
20°	217060
25°	189155
30°	157322
35°	124657
40°	89972
45°	56842
50°	29630
55°	15752
60°	8270
65°	4547
70°	1913
75°	2099
80°	1446
85°	1273

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 56842 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	399.7	8.6
10°-20°	1094.5	23.5
20°-30°	1337.9	28.7
30°-40°	1085.5	23.3
40°-50°	540.9	11.6
50°-60°	150.9	3.2
60°-70°	34.3	0.7
70°-80°	8.9	0.2
80°-90°	2.3	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°	2832.1	60.8
0°-40°	3917.6	84.2
0°-60°	4609.4	99.0
0°-90°	4654.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4654.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4226	
5°	4200	400
15°	3943	1095
25°	2935	1338
35°	1748	1086
45°	688	541
55°	155	151
65°	33	34
75°	9	9
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	4226.5
2.5°	4223.4
5°	4199.8
7.5°	4186.1
10°	4148.2
12.5°	4071.2
15°	3943.3
17.5°	3743.3
20°	3492.4
22.5°	3221.6
25°	2935.3
27.5°	2629.1
30°	2332.8
32.5°	2040.3
35°	1748.4
37.5°	1457.1
40°	1180.1
42.5°	920.4
45°	688.2
47.5°	479.5
50°	326.1
52.5°	224.8
55°	154.7
57.5°	104.3
60°	70.8
62.5°	49.1
65°	32.9
67.5°	16.8
70°	11.2
72.5°	10.6
75°	9.3
77.5°	6.2
80°	4.3
82.5°	3.1
85°	1.9
87.5°	1.2
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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(END OF REPORT)