

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: P744506

Luminaire Tested: LD4D20D010-EU4DR5520359027-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744506
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR5520359027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1826.4 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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

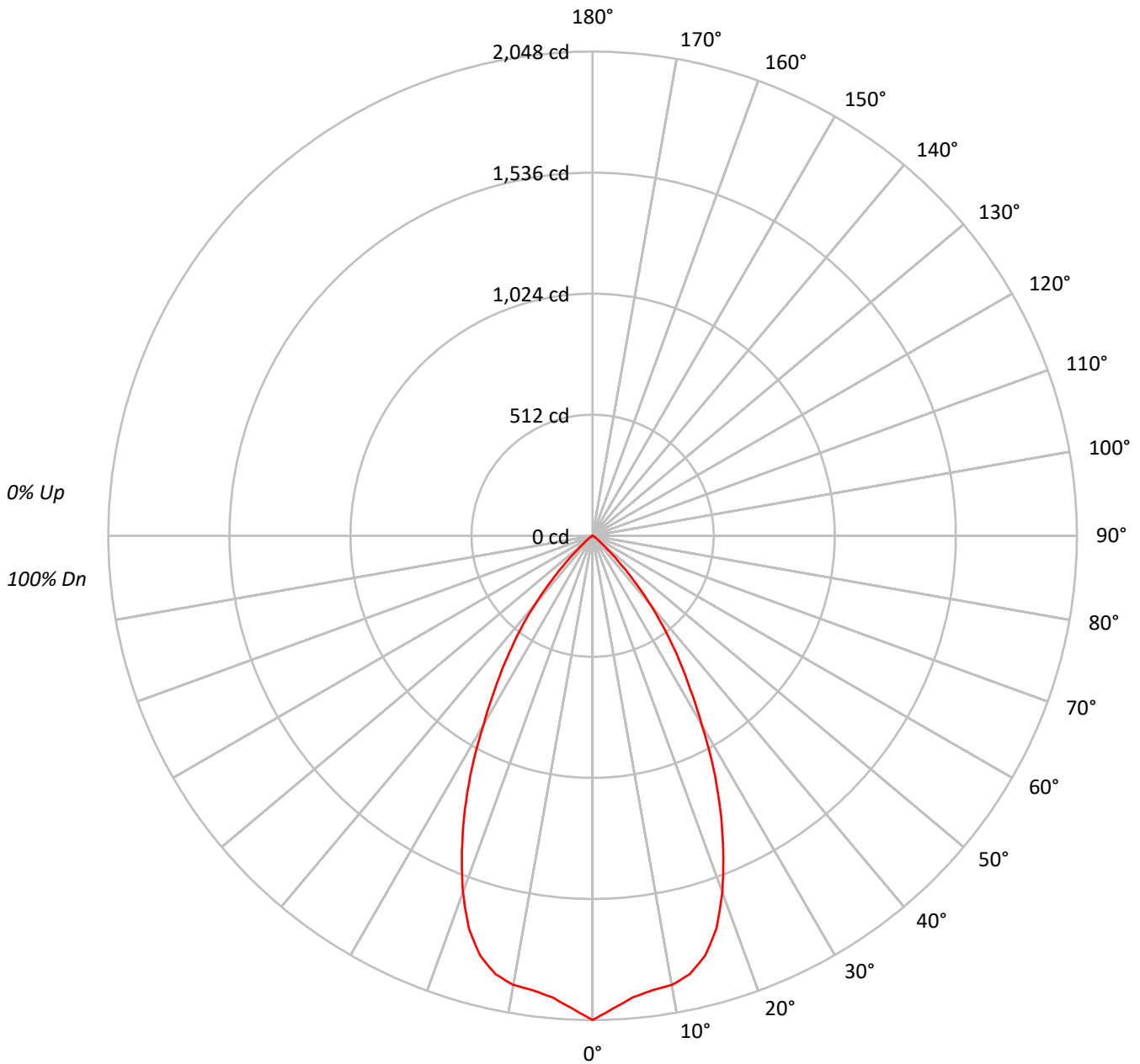


Downlight



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	114	111	108	106	111	109	106	104	105	103	101		101	99	98		97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	92		95	93	90		92	90	89	87
3	102	96	91	87	100	95	90	86	92	88	85		90	86	84		87	85	82	81
4	97	90	84	80	95	88	83	79	86	82	78		84	81	78		82	79	77	75
5	92	84	78	74	91	83	77	73	81	76	73		79	75	72		78	74	71	70
6	88	79	73	68	86	78	72	68	76	71	68		75	70	67		74	70	67	65
7	83	74	68	64	82	73	67	63	72	67	63		71	66	63		70	65	62	61
8	79	69	63	59	78	69	63	59	68	63	59		67	62	59		66	62	58	57
9	75	66	60	56	74	65	59	55	64	59	55		63	58	55		62	58	55	54
10	72	62	56	52	71	61	56	52	61	56	52		60	55	52		59	55	52	50

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	223766
5°	214881
10°	214071
15°	207917
20°	186432
25°	154070
30°	116386
35°	84391
40°	54014
45°	24661
50°	8057
55°	3486
60°	1508
65°	181
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 24661 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.4	10.2
10°-20°	508.8	27.9
20°-30°	579.8	31.7
30°-40°	394.7	21.6
40°-50°	136.0	7.4
50°-60°	18.8	1.0
60°-70°	1.8	0.1
70°-80°	0.0	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°	1275.0	69.8
0°-40°	1669.8	91.4
0°-60°	1824.6	99.9
0°-90°	1826.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1826.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2048	
5°	1959	186
15°	1838	509
25°	1278	580
35°	633	395
45°	160	136
55°	18	19
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2048.0
2.5°	2001.0
5°	1959.2
7.5°	1938.6
10°	1929.5
12.5°	1899.0
15°	1838.1
17.5°	1741.4
20°	1603.4
22.5°	1444.0
25°	1278.0
27.5°	1105.2
30°	922.5
32.5°	767.7
35°	632.7
37.5°	504.3
40°	378.7
42.5°	262.4
45°	159.6
47.5°	86.1
50°	47.4
52.5°	28.2
55°	18.3
57.5°	11.7
60°	6.9
62.5°	3.0
65°	0.7
67.5°	0.2
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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