

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: P746027

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746027
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: LD4D30D010-EU4DR3020359040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2838.9 lumens
Efficiency: N/A
Efficacy: 97.9 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): 29
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

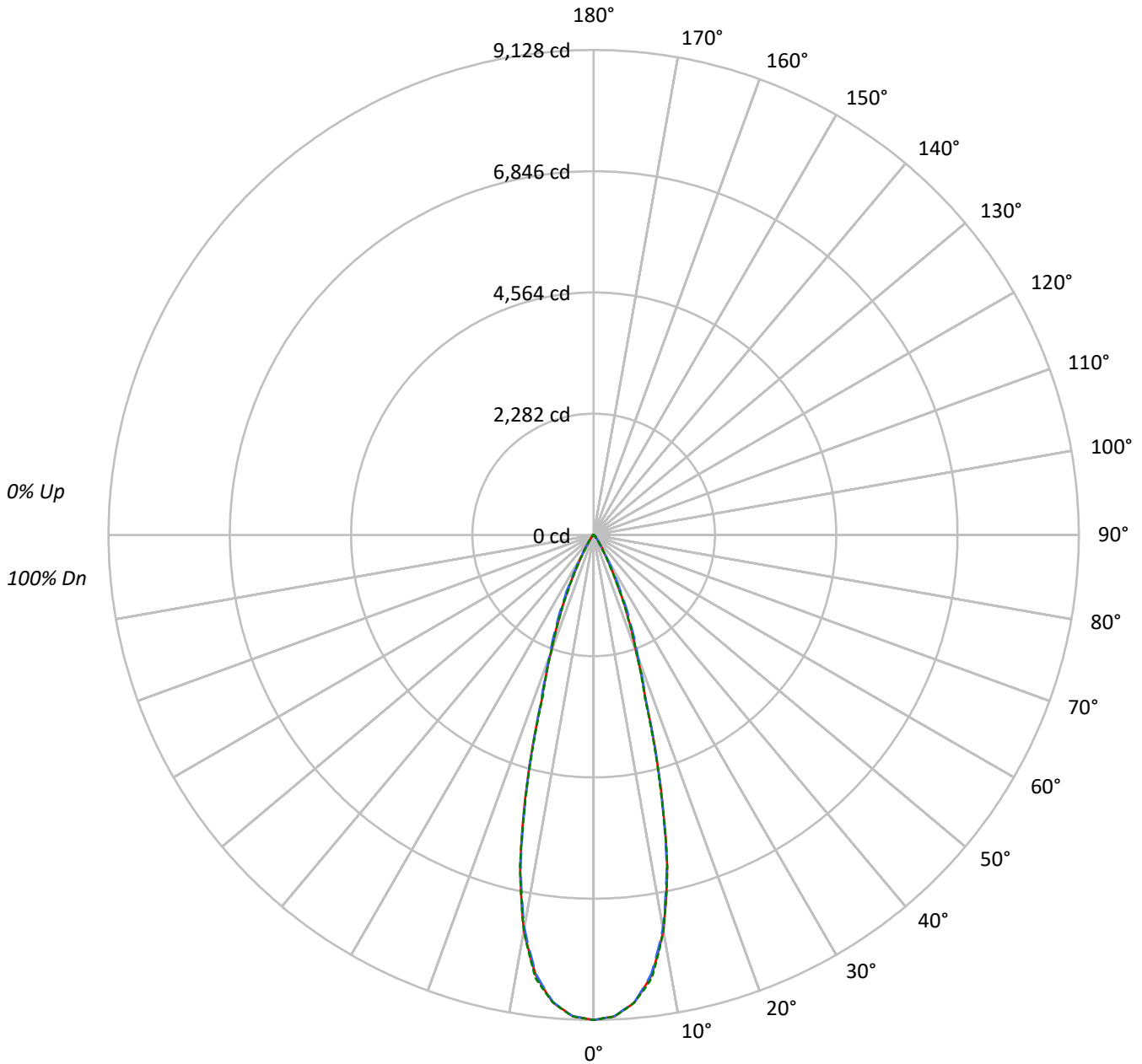


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	698726	698726	698726
5°	678667	677876	678698
10°	587828	583685	587688
15°	383531	381471	379553
20°	190712	197864	190460
25°	96069	108332	94101
30°	38465	41912	33515
35°	17838	17081	14325
40°	7704	8553	7254
45°	5434	6744	5477
50°	1870	4918	1977
55°	1081	2028	1134
60°	750	888	750
65°	489	489	489
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6744 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.7	28.3
10°-20°	1292.8	45.5
20°-30°	558.6	19.7
30°-40°	127.3	4.5
40°-50°	43.7	1.5
50°-60°	10.7	0.4
60°-70°	2.8	0.1
70°-80°	0.3	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°	2654.1	93.5
0°-40°	2781.5	98.0
0°-60°	2835.9	99.9
0°-90°	2838.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2838.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9128	9128	9128	9128	9128	
5°	8833	8824	8822	8841	8833	803
15°	4840	4782	4814	4798	4790	1296
25°	1138	1180	1283	1150	1114	544
35°	191	195	183	182	153	129
45°	50	62	62	62	51	36
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9128.5	9128.5	9128.5	9128.5	9128.5
2.5°	9068.0	9061.7	9065.3	9069.8	9071.6
5°	8832.7	8824.2	8822.4	8840.7	8833.1
7.5°	8358.1	8346.0	8327.6	8369.3	8408.3
10°	7563.0	7549.5	7509.7	7529.4	7561.2
12.5°	6389.3	6345.8	6344.9	6407.6	6399.1
15°	4839.9	4781.6	4813.9	4798.2	4789.7
17.5°	3254.6	3232.2	3275.3	3262.3	3206.3
20°	2341.3	2347.1	2429.1	2387.9	2338.2
22.5°	1708.5	1729.5	1826.8	1720.6	1681.6
25°	1137.5	1180.5	1282.7	1150.5	1114.2
27.5°	699.6	719.3	822.9	690.6	670.9
30°	435.2	425.3	474.2	407.0	379.2
32.5°	285.5	273.0	288.7	259.0	236.6
35°	190.9	195.0	182.8	181.5	153.3
37.5°	119.2	137.2	121.0	129.1	98.6
40°	77.1	99.5	85.6	94.6	72.6
42.5°	63.2	76.7	70.4	74.8	64.5
45°	50.2	62.3	62.3	62.3	50.6
47.5°	27.8	41.7	53.3	42.6	29.6
50°	15.7	21.1	41.3	21.9	16.6
52.5°	10.8	12.1	28.2	12.5	11.2
55°	8.1	8.5	15.2	8.9	8.5
57.5°	6.3	6.7	8.1	6.7	6.3
60°	4.9	4.9	5.8	5.4	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.7	2.7	2.7	2.7	2.7
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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

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

Scaled Data Report



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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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