

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: P746001

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746001
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-EU4DR3020359030-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2616.8 lumens
Efficiency: N/A
Efficacy: 90.2 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

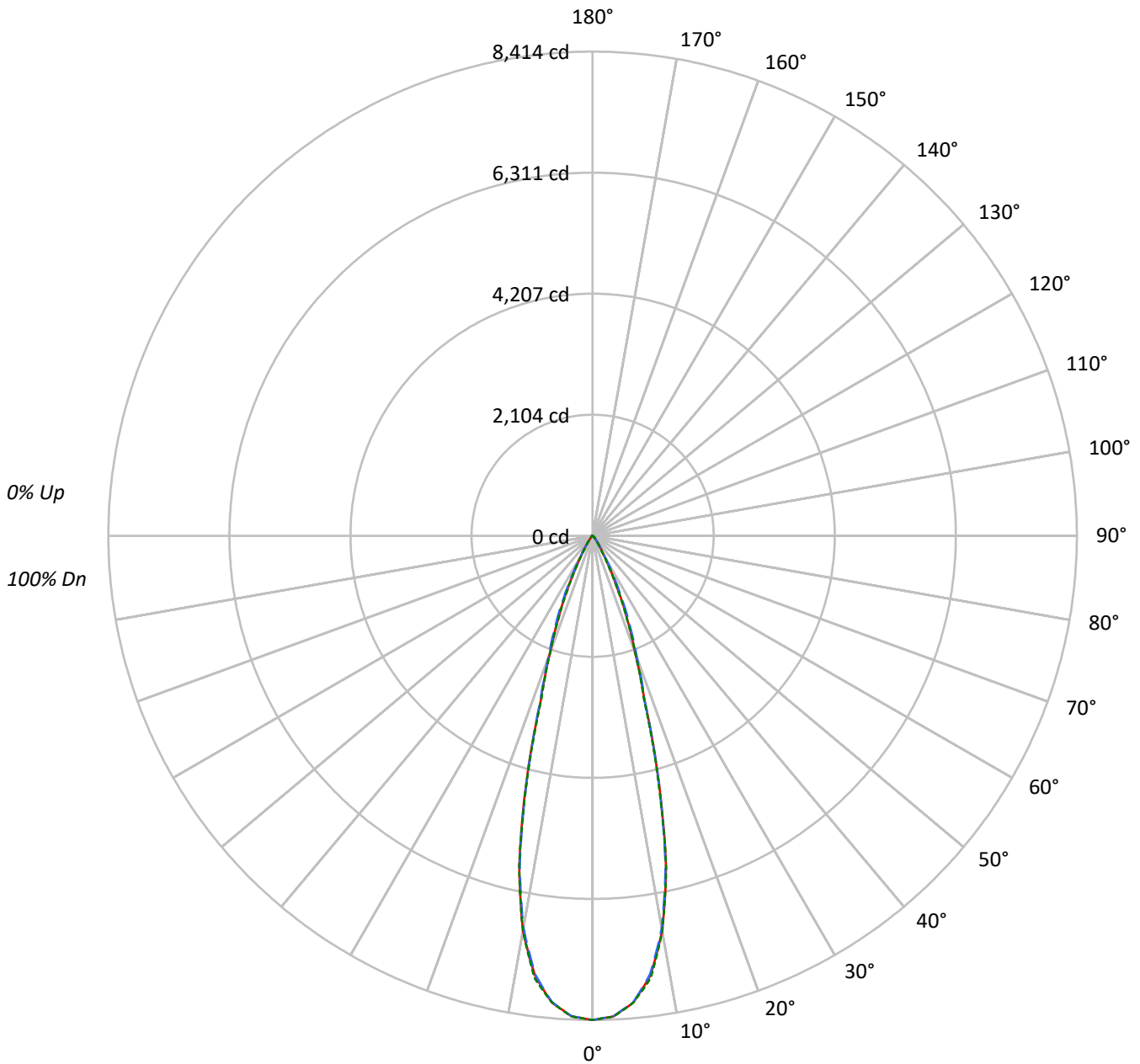


Downlight



TEST NUMBER: P746001
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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	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°	644067	644067	644067
5°	625574	624844	625605
10°	541846	538022	541714
15°	353529	351627	349860
20°	175790	182388	175562
25°	88552	99853	86737
30°	35451	38633	30890
35°	16446	15754	13203
40°	7094	7884	6685
45°	5012	6213	5055
50°	1715	4525	1822
55°	988	1868	1041
60°	689	827	689
65°	453	453	453
70°	291	179	291
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6213 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	739.9	28.3
10°-20°	1191.6	45.5
20°-30°	514.9	19.7
30°-40°	117.4	4.5
40°-50°	40.3	1.5
50°-60°	9.8	0.4
60°-70°	2.6	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°	2446.5	93.5
0°-40°	2563.9	98.0
0°-60°	2614.0	99.9
0°-90°	2616.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8414	8414	8414	8414	8414	
5°	8142	8134	8132	8149	8142	741
15°	4461	4408	4437	4423	4415	1195
25°	1048	1088	1182	1060	1027	502
35°	176	180	169	167	141	119
45°	46	57	57	57	47	33
55°	7	8	14	8	8	7
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°	8414.4	8414.4	8414.4	8414.4	8414.4
2.5°	8358.7	8352.9	8356.1	8360.3	8361.9
5°	8141.7	8133.9	8132.2	8149.2	8142.1
7.5°	7704.2	7693.1	7676.2	7714.6	7750.5
10°	6971.4	6959.0	6922.2	6940.4	6969.7
12.5°	5889.4	5849.4	5848.5	5906.4	5898.5
15°	4461.3	4407.6	4437.3	4422.8	4415.0
17.5°	3000.1	2979.4	3019.0	3007.1	2955.5
20°	2158.1	2163.5	2239.1	2201.1	2155.3
22.5°	1574.8	1594.2	1683.9	1586.0	1550.0
25°	1048.5	1088.1	1182.3	1060.5	1027.0
27.5°	644.9	663.1	758.5	636.6	618.4
30°	401.1	392.1	437.1	375.1	349.5
32.5°	263.2	251.6	266.0	238.8	218.1
35°	176.0	179.7	168.6	167.3	141.3
37.5°	109.9	126.4	111.6	119.0	90.9
40°	71.0	91.7	78.9	87.1	66.9
42.5°	58.3	70.6	64.9	69.0	59.5
45°	46.3	57.4	57.4	57.4	46.7
47.5°	25.6	38.4	49.2	39.2	27.3
50°	14.4	19.4	38.0	20.2	15.3
52.5°	9.9	11.2	26.0	11.6	10.3
55°	7.4	7.8	14.0	8.3	7.8
57.5°	5.8	6.2	7.4	6.2	5.8
60°	4.5	4.5	5.4	5.0	4.5
62.5°	3.3	3.3	3.7	3.3	3.3
65°	2.5	2.5	2.5	2.5	2.5
67.5°	1.3	1.7	1.7	1.7	1.7
70°	1.3	0.8	0.8	0.8	1.3
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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