

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: P745104

Luminaire Tested: LD4D25D010-EU4DR3020359050-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745104
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: LD4D25D010-EU4DR3020359050-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2496.1 lumens
Efficiency: N/A
Efficacy: 99.4 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): 25.1
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



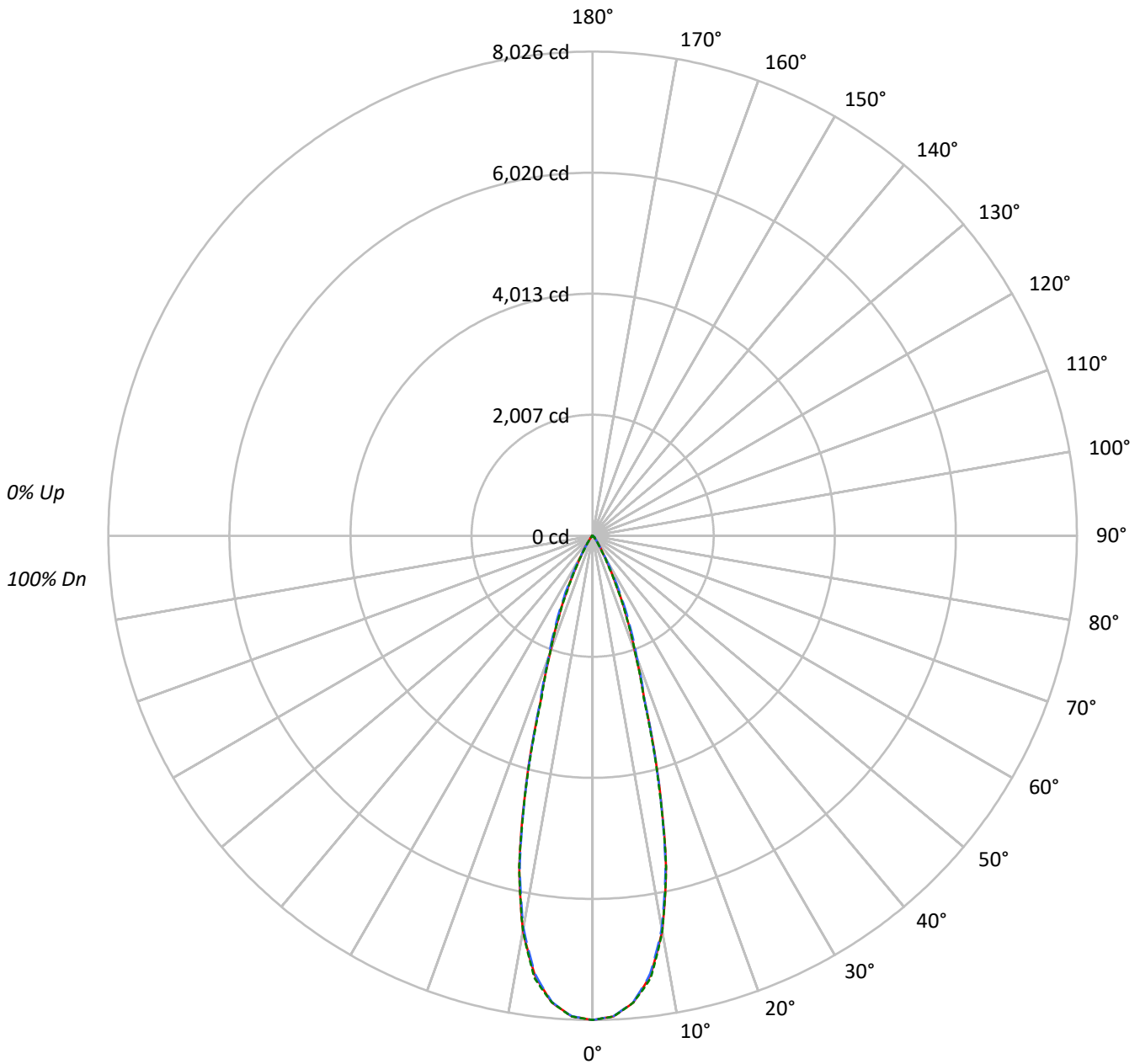
Downlight



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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	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°	614337	614337	614337
5°	596699	596000	596730
10°	516835	513182	516703
15°	337205	335390	333710
20°	167677	173965	167449
25°	84465	95241	82733
30°	33816	36848	29459
35°	15689	15026	12596
40°	6775	7524	6375
45°	4774	5932	4817
50°	1643	4323	1739
55°	947	1788	1001
60°	674	781	674
65°	417	417	417
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5932 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.8	28.3
10°-20°	1136.6	45.5
20°-30°	491.2	19.7
30°-40°	112.0	4.5
40°-50°	38.4	1.5
50°-60°	9.4	0.4
60°-70°	2.4	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°	2333.6	93.5
0°-40°	2445.5	98.0
0°-60°	2493.4	99.9
0°-90°	2496.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2496.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8026	8026	8026	8026	8026	
5°	7766	7758	7757	7773	7766	706
15°	4255	4204	4232	4219	4211	1139
25°	1000	1038	1128	1012	980	479
35°	168	171	161	160	135	114
45°	44	55	55	55	44	31
55°	7	8	13	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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8026.0	8026.0	8026.0	8026.0	8026.0
2.5°	7972.8	7967.2	7970.4	7974.3	7975.9
5°	7765.9	7758.4	7756.8	7773.0	7766.3
7.5°	7348.6	7338.0	7321.8	7358.5	7392.7
10°	6649.6	6637.7	6602.6	6620.0	6647.9
12.5°	5617.6	5579.3	5578.5	5633.7	5626.2
15°	4255.3	4204.1	4232.4	4218.7	4211.2
17.5°	2861.5	2841.9	2879.7	2868.2	2819.0
20°	2058.5	2063.7	2135.7	2099.5	2055.7
22.5°	1502.1	1520.6	1606.2	1512.8	1478.4
25°	1000.1	1037.9	1127.7	1011.5	979.6
27.5°	615.1	632.4	723.5	607.2	589.9
30°	382.6	374.0	416.9	357.8	333.3
32.5°	251.0	240.0	253.8	227.7	208.0
35°	167.9	171.4	160.8	159.6	134.8
37.5°	104.8	120.6	106.4	113.5	86.7
40°	67.8	87.5	75.3	83.1	63.8
42.5°	55.6	67.4	61.9	65.8	56.7
45°	44.1	54.8	54.8	54.8	44.5
47.5°	24.4	36.7	46.9	37.4	26.0
50°	13.8	18.5	36.3	19.3	14.6
52.5°	9.5	10.7	24.8	11.1	9.9
55°	7.1	7.5	13.4	7.9	7.5
57.5°	5.5	5.9	7.1	5.9	5.5
60°	4.4	4.4	5.1	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.3	2.3	2.3	2.3	2.3
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
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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