

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: P745059

Luminaire Tested: LD4D25D010-EU4DR3020359030-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745059
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-EU4DR3020359030-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2326.8 lumens
Efficiency: N/A
Efficacy: 92.7 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 (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

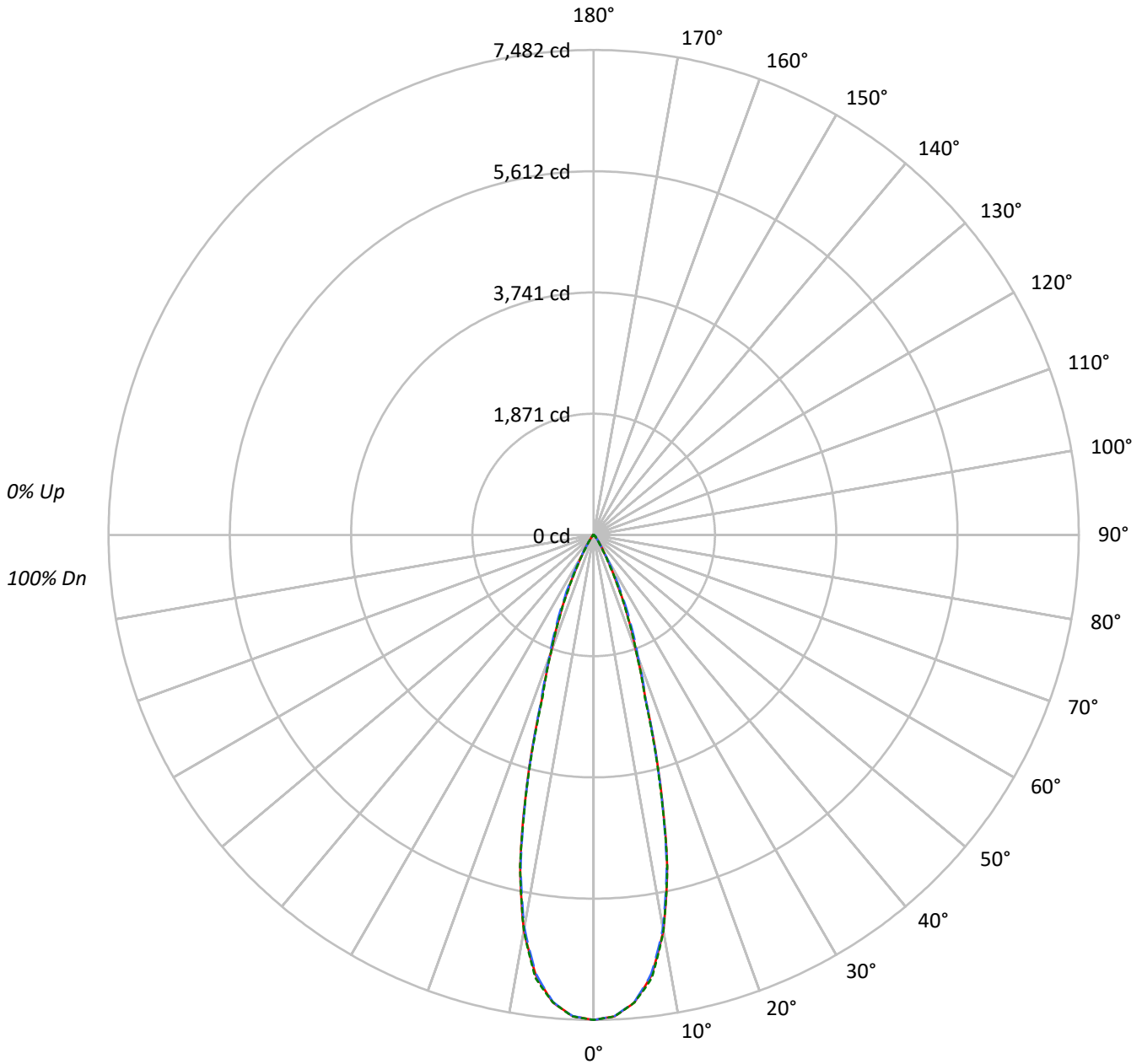


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	572705	572705	572705
5°	556260	555615	556291
10°	481805	478408	481688
15°	314351	312663	311094
20°	156314	162178	156102
25°	78739	88797	77125
30°	31527	34346	27470
35°	14624	14007	11736
40°	6315	7014	5945
45°	4449	5521	4492
50°	1524	4025	1619
55°	881	1668	934
60°	628	735	628
65°	398	398	398
70°	246	157	246
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5521 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	657.9	28.3
10°-20°	1059.6	45.5
20°-30°	457.9	19.7
30°-40°	104.4	4.5
40°-50°	35.8	1.5
50°-60°	8.8	0.4
60°-70°	2.3	0.1
70°-80°	0.2	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°	2175.4	93.5
0°-40°	2279.8	98.0
0°-60°	2324.4	99.9
0°-90°	2326.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2326.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7482	7482	7482	7482	7482	
5°	7240	7233	7231	7246	7240	658
15°	3967	3919	3946	3933	3926	1062
25°	932	968	1051	943	913	446
35°	156	160	150	149	126	106
45°	41	51	51	51	42	29
55°	7	7	12	7	7	6
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°	7482.1	7482.1	7482.1	7482.1	7482.1
2.5°	7432.4	7427.3	7430.3	7433.9	7435.4
5°	7239.6	7232.6	7231.2	7246.2	7240.0
7.5°	6850.6	6840.7	6825.6	6859.8	6891.7
10°	6198.9	6187.9	6155.2	6171.4	6197.4
12.5°	5236.8	5201.2	5200.5	5251.9	5244.9
15°	3966.9	3919.2	3945.6	3932.8	3925.8
17.5°	2667.7	2649.3	2684.6	2673.9	2628.0
20°	1919.0	1923.8	1991.0	1957.2	1916.4
22.5°	1400.3	1417.6	1497.3	1410.2	1378.3
25°	932.3	967.6	1051.4	943.0	913.2
27.5°	573.4	589.6	674.4	566.1	549.9
30°	356.7	348.6	388.6	333.6	310.8
32.5°	234.0	223.7	236.6	212.3	193.9
35°	156.5	159.8	149.9	148.8	125.6
37.5°	97.7	112.4	99.2	105.8	80.8
40°	63.2	81.5	70.2	77.5	59.5
42.5°	51.8	62.8	57.7	61.4	52.9
45°	41.1	51.0	51.0	51.0	41.5
47.5°	22.8	34.1	43.7	34.9	24.2
50°	12.8	17.2	33.8	18.0	13.6
52.5°	8.8	9.9	23.1	10.3	9.2
55°	6.6	7.0	12.5	7.3	7.0
57.5°	5.2	5.5	6.6	5.5	5.2
60°	4.1	4.1	4.8	4.4	4.1
62.5°	2.9	2.9	3.3	2.9	2.9
65°	2.2	2.2	2.2	2.2	2.2
67.5°	1.1	1.5	1.5	1.5	1.5
70°	1.1	0.7	0.7	0.7	1.1
72.5°	0.7	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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