

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



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: P745040

Luminaire Tested: LD4D25D010-EU4DR3020359024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745040
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-EU4DR3020359024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1541.6 lumens
Efficiency: N/A
Efficacy: 61.4 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



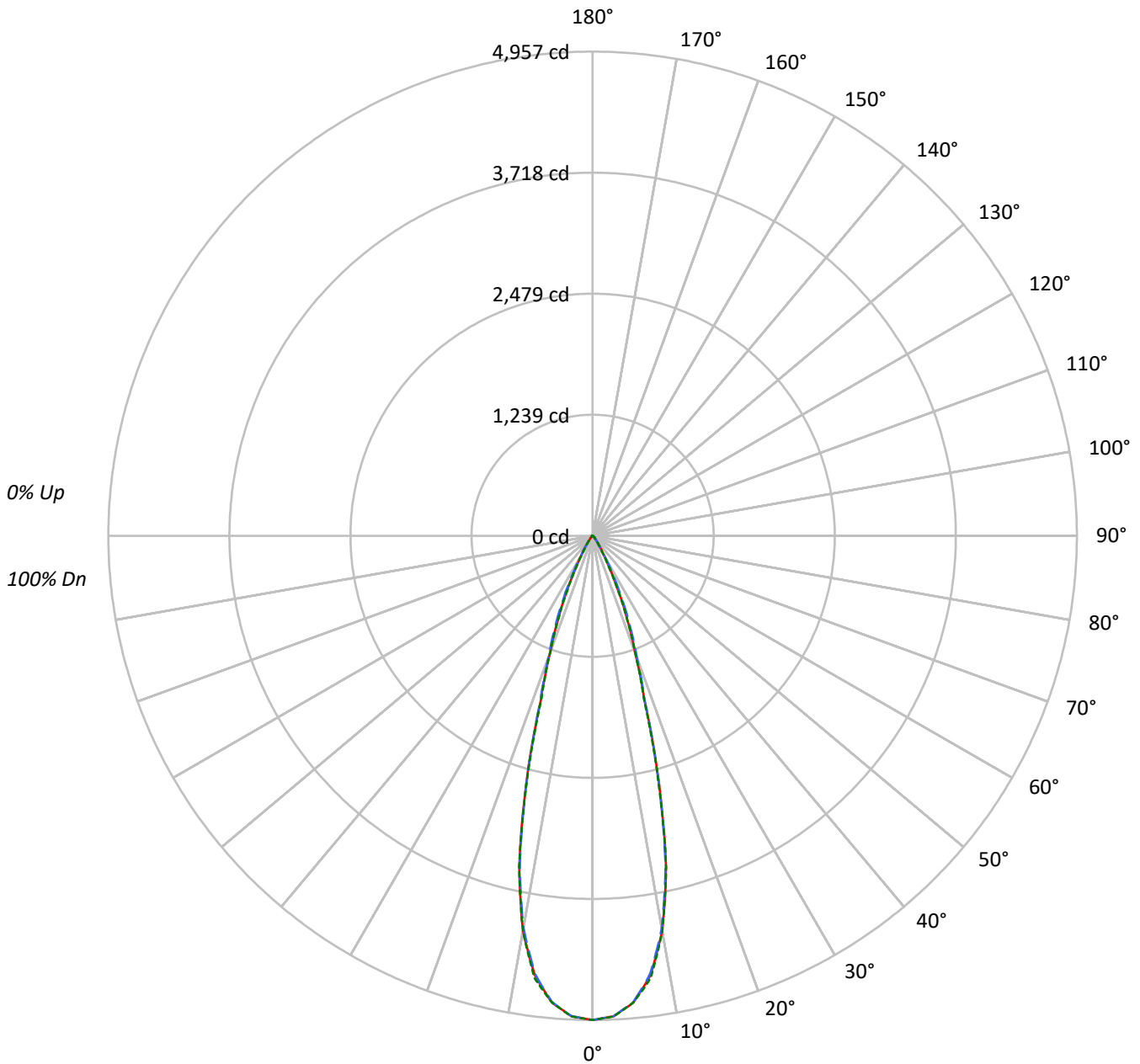
Downlight



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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	379418	379418	379418
5°	368527	368097	368550
10°	319206	316952	319128
15°	208260	207143	206105
20°	103563	107440	103424
25°	52169	58824	51096
30°	20885	22759	18198
35°	9681	9279	7774
40°	4187	4646	3937
45°	2955	3659	2977
50°	1012	2667	1072
55°	587	1108	614
60°	413	490	413
65°	254	254	254
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 3659 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.9	28.3
10°-20°	702.0	45.5
20°-30°	303.4	19.7
30°-40°	69.1	4.5
40°-50°	23.7	1.5
50°-60°	5.8	0.4
60°-70°	1.5	0.1
70°-80°	0.1	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°	1441.2	93.5
0°-40°	1510.4	98.0
0°-60°	1539.9	99.9
0°-90°	1541.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1541.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4957	4957	4957	4957	4957	
5°	4796	4792	4791	4801	4797	436
15°	2628	2596	2614	2606	2601	704
25°	618	641	696	625	605	296
35°	104	106	99	98	83	70
45°	27	34	34	34	28	19
55°	4	5	8	5	5	4
65°	1	1	1	1	1	1
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°	4956.9	4956.9	4956.9	4956.9	4956.9
2.5°	4924.1	4920.7	4922.6	4925.1	4926.1
5°	4796.3	4791.7	4790.7	4800.7	4796.6
7.5°	4538.6	4532.0	4522.0	4544.6	4565.8
10°	4106.9	4099.6	4077.9	4088.6	4105.9
12.5°	3469.4	3445.8	3445.4	3479.5	3474.8
15°	2628.1	2596.5	2614.0	2605.5	2600.9
17.5°	1767.3	1755.2	1778.6	1771.5	1741.1
20°	1271.4	1274.5	1319.0	1296.6	1269.7
22.5°	927.7	939.2	991.9	934.3	913.1
25°	617.7	641.0	696.5	624.7	605.0
27.5°	379.9	390.6	446.8	375.1	364.3
30°	236.3	231.0	257.5	221.0	205.9
32.5°	155.0	148.2	156.7	140.7	128.5
35°	103.6	105.9	99.3	98.5	83.2
37.5°	64.7	74.5	65.7	70.1	53.5
40°	41.9	54.0	46.5	51.3	39.4
42.5°	34.3	41.6	38.2	40.6	35.1
45°	27.3	33.8	33.8	33.8	27.5
47.5°	15.1	22.6	28.9	23.1	16.0
50°	8.5	11.5	22.4	11.9	9.0
52.5°	5.8	6.6	15.4	6.8	6.1
55°	4.4	4.6	8.3	4.9	4.6
57.5°	3.4	3.7	4.4	3.7	3.4
60°	2.7	2.7	3.2	2.9	2.7
62.5°	1.9	1.9	2.2	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4
67.5°	0.7	1.0	1.0	1.0	1.0
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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

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Scaled Data Report





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

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