

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: P745034

Luminaire Tested: LD4D25D010-EU4DR3020359024-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745034
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-EU4DR3020359024-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2131.5 lumens
Efficiency: N/A
Efficacy: 84.9 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): 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

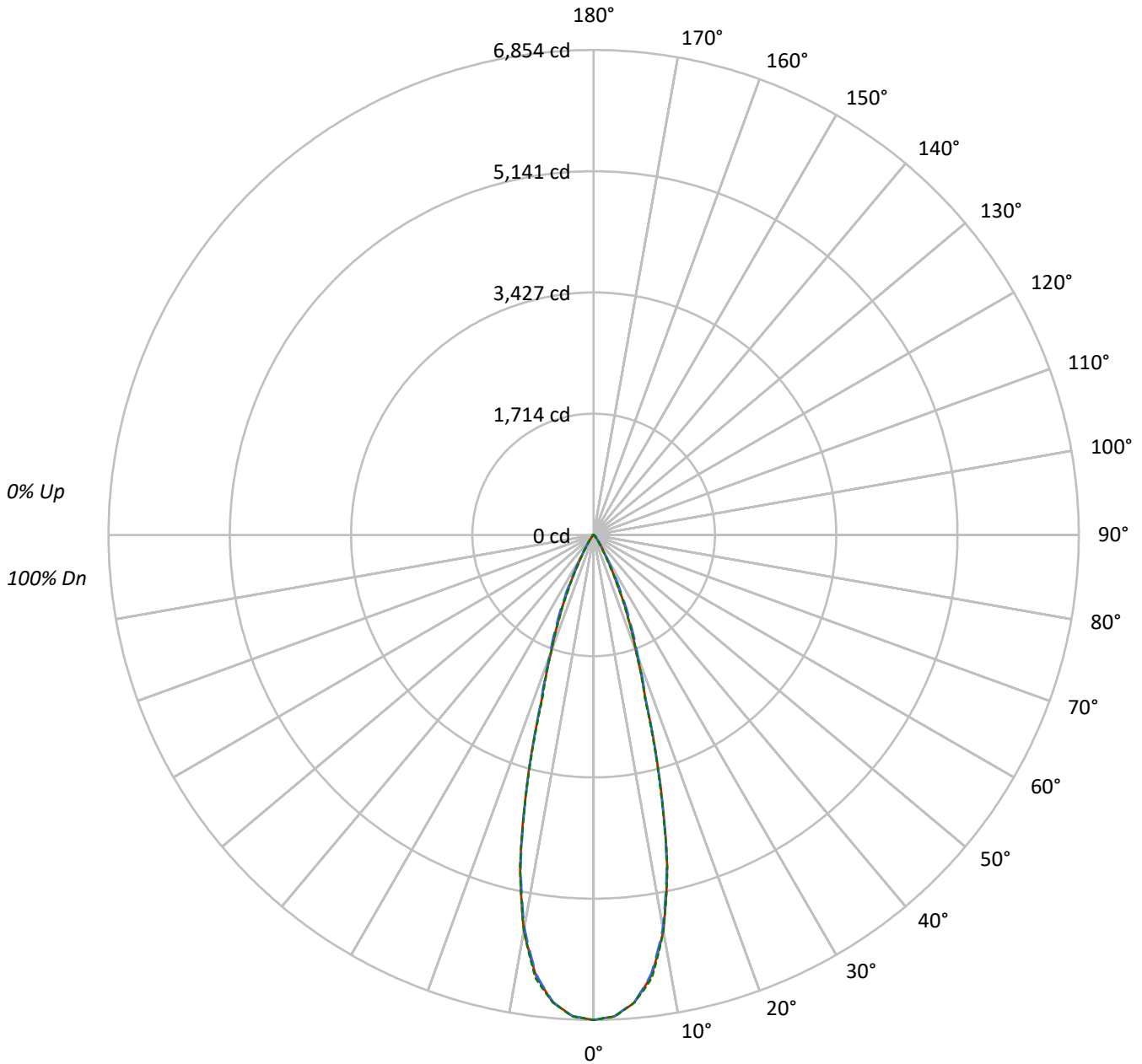


Downlight



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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	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	86	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°	524628	524628	524628
5°	509560	508968	509590
10°	441365	438248	441256
15°	287963	286418	284976
20°	143191	148567	143004
25°	72126	81340	70656
30°	28884	31465	25163
35°	13400	12830	10755
40°	5785	6425	5446
45°	4081	5066	4113
50°	1405	3680	1477
55°	814	1535	854
60°	566	674	566
65°	362	362	362
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 5066 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.7	28.3
10°-20°	970.7	45.5
20°-30°	419.5	19.7
30°-40°	95.6	4.5
40°-50°	32.8	1.5
50°-60°	8.0	0.4
60°-70°	2.1	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°	1992.8	93.5
0°-40°	2088.4	98.0
0°-60°	2129.3	99.9
0°-90°	2131.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2131.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6854	6854	6854	6854	6854	
5°	6632	6626	6624	6638	6632	603
15°	3634	3590	3614	3603	3596	973
25°	854	886	963	864	837	409
35°	143	146	137	136	115	97
45°	38	47	47	47	38	27
55°	6	6	12	7	6	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6854.0	6854.0	6854.0	6854.0	6854.0
2.5°	6808.5	6803.8	6806.5	6809.9	6811.2
5°	6631.8	6625.5	6624.1	6637.9	6632.2
7.5°	6275.5	6266.4	6252.6	6283.9	6313.2
10°	5678.6	5668.4	5638.5	5653.3	5677.2
12.5°	4797.3	4764.6	4763.9	4811.0	4804.7
15°	3633.9	3590.2	3614.4	3602.7	3596.2
17.5°	2443.7	2426.9	2459.2	2449.4	2407.4
20°	1757.9	1762.3	1823.9	1792.9	1755.6
22.5°	1282.8	1298.6	1371.6	1291.8	1262.6
25°	854.0	886.4	963.1	863.8	836.6
27.5°	525.3	540.1	617.8	518.6	503.7
30°	326.8	319.4	356.0	305.6	284.7
32.5°	214.3	204.9	216.7	194.5	177.7
35°	143.4	146.4	137.3	136.3	115.1
37.5°	89.5	103.0	90.9	96.9	74.0
40°	57.9	74.7	64.3	71.0	54.5
42.5°	47.4	57.5	52.8	56.2	48.5
45°	37.7	46.8	46.8	46.8	38.0
47.5°	20.9	31.3	40.0	32.0	22.2
50°	11.8	15.8	30.9	16.5	12.4
52.5°	8.1	9.1	21.2	9.4	8.4
55°	6.1	6.4	11.5	6.7	6.4
57.5°	4.7	5.0	6.1	5.0	4.7
60°	3.7	3.7	4.4	4.0	3.7
62.5°	2.7	2.7	3.0	2.7	2.7
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.7	0.7	0.7	1.0
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

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Scaled Data Report





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

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