

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: P745073

Luminaire Tested: LD4D25D010-EU4DR3020359035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745073
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-EU4DR3020359035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2579.3 lumens
Efficiency: N/A
Efficacy: 102.8 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

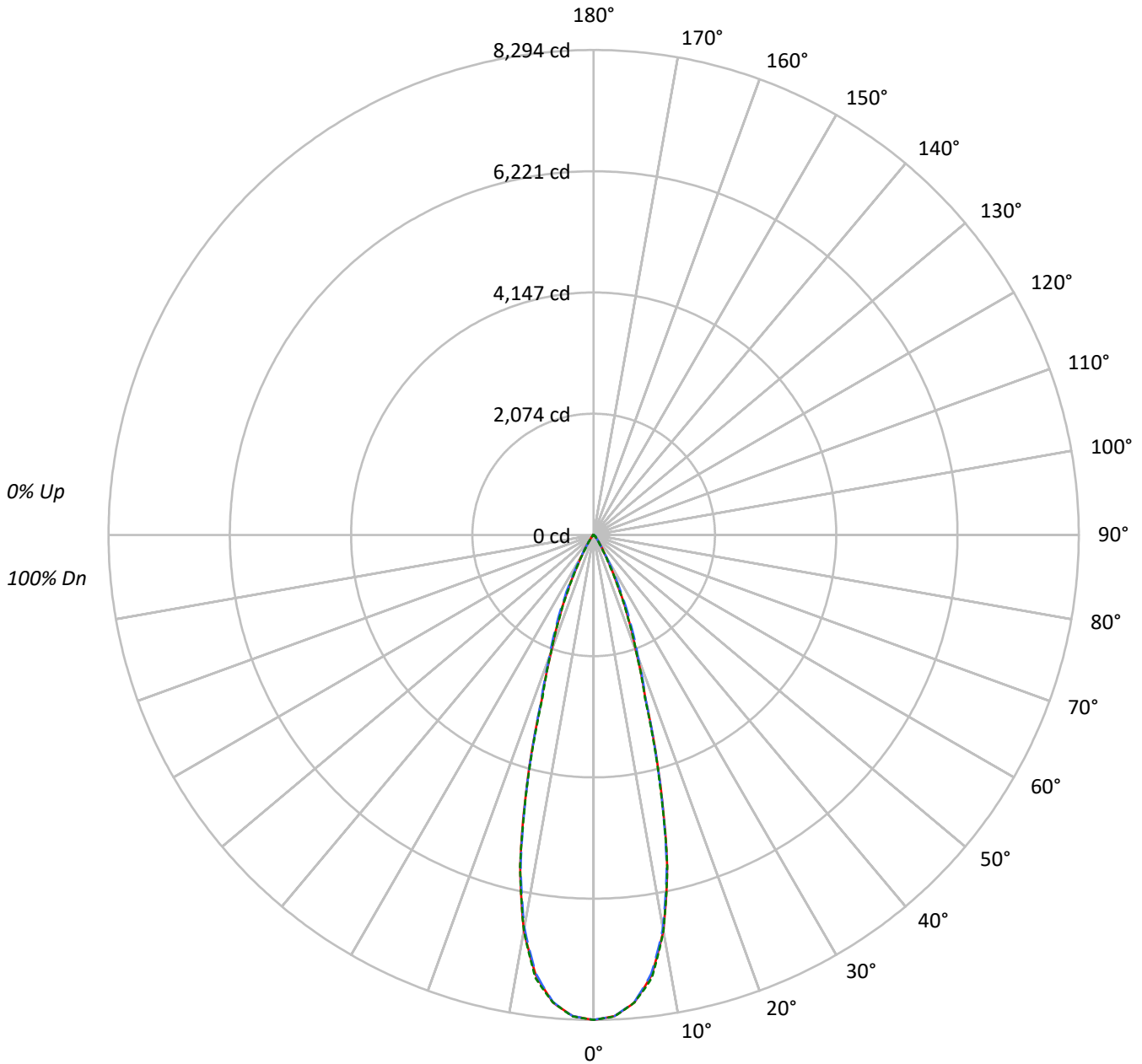


Downlight



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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°	634820	634820	634820
5°	616592	615877	616622
10°	534059	530297	533934
15°	348450	346580	344836
20°	173265	179765	173037
25°	87277	98425	85495
30°	34947	38076	30449
35°	16212	15530	13017
40°	6994	7764	6585
45°	4936	6127	4979
50°	1703	4466	1798
55°	974	1855	1028
60°	689	811	689
65°	453	453	453
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: 6127 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	729.3	28.3
10°-20°	1174.5	45.5
20°-30°	507.5	19.7
30°-40°	115.7	4.5
40°-50°	39.7	1.5
50°-60°	9.7	0.4
60°-70°	2.5	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°	2411.4	93.5
0°-40°	2527.1	98.0
0°-60°	2576.5	99.9
0°-90°	2579.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8294	8294	8294	8294	8294	
5°	8025	8017	8016	8032	8025	730
15°	4397	4344	4374	4359	4352	1177
25°	1033	1072	1165	1045	1012	495
35°	174	177	166	165	139	118
45°	46	57	57	57	46	32
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°	8293.6	8293.6	8293.6	8293.6	8293.6
2.5°	8238.6	8232.9	8236.1	8240.2	8241.8
5°	8024.8	8017.1	8015.5	8032.1	8025.2
7.5°	7593.6	7582.6	7565.9	7603.8	7639.2
10°	6871.2	6859.0	6822.8	6840.7	6869.6
12.5°	5804.9	5765.3	5764.5	5821.5	5813.8
15°	4397.2	4344.3	4373.6	4359.4	4351.6
17.5°	2957.0	2936.6	2975.7	2963.9	2913.0
20°	2127.1	2132.4	2206.9	2169.5	2124.3
22.5°	1552.2	1571.3	1659.7	1563.2	1527.8
25°	1033.4	1072.5	1165.4	1045.2	1012.3
27.5°	635.6	653.5	747.6	627.5	609.6
30°	395.4	386.4	430.8	369.7	344.5
32.5°	259.4	248.0	262.2	235.4	215.0
35°	173.5	177.1	166.2	164.9	139.3
37.5°	108.3	124.6	109.9	117.3	89.6
40°	70.0	90.4	77.7	85.9	65.9
42.5°	57.4	69.6	63.9	68.0	58.6
45°	45.6	56.6	56.6	56.6	46.0
47.5°	25.3	37.9	48.5	38.7	26.9
50°	14.3	19.1	37.5	19.9	15.1
52.5°	9.8	11.0	25.7	11.4	10.2
55°	7.3	7.7	13.9	8.1	7.7
57.5°	5.7	6.1	7.3	6.1	5.7
60°	4.5	4.5	5.3	4.9	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°	1.2	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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