

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: P746022

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746022
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: LD4D30D010-EU4DR3020359040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2979.1 lumens
Efficiency: N/A
Efficacy: 102.7 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): 29
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

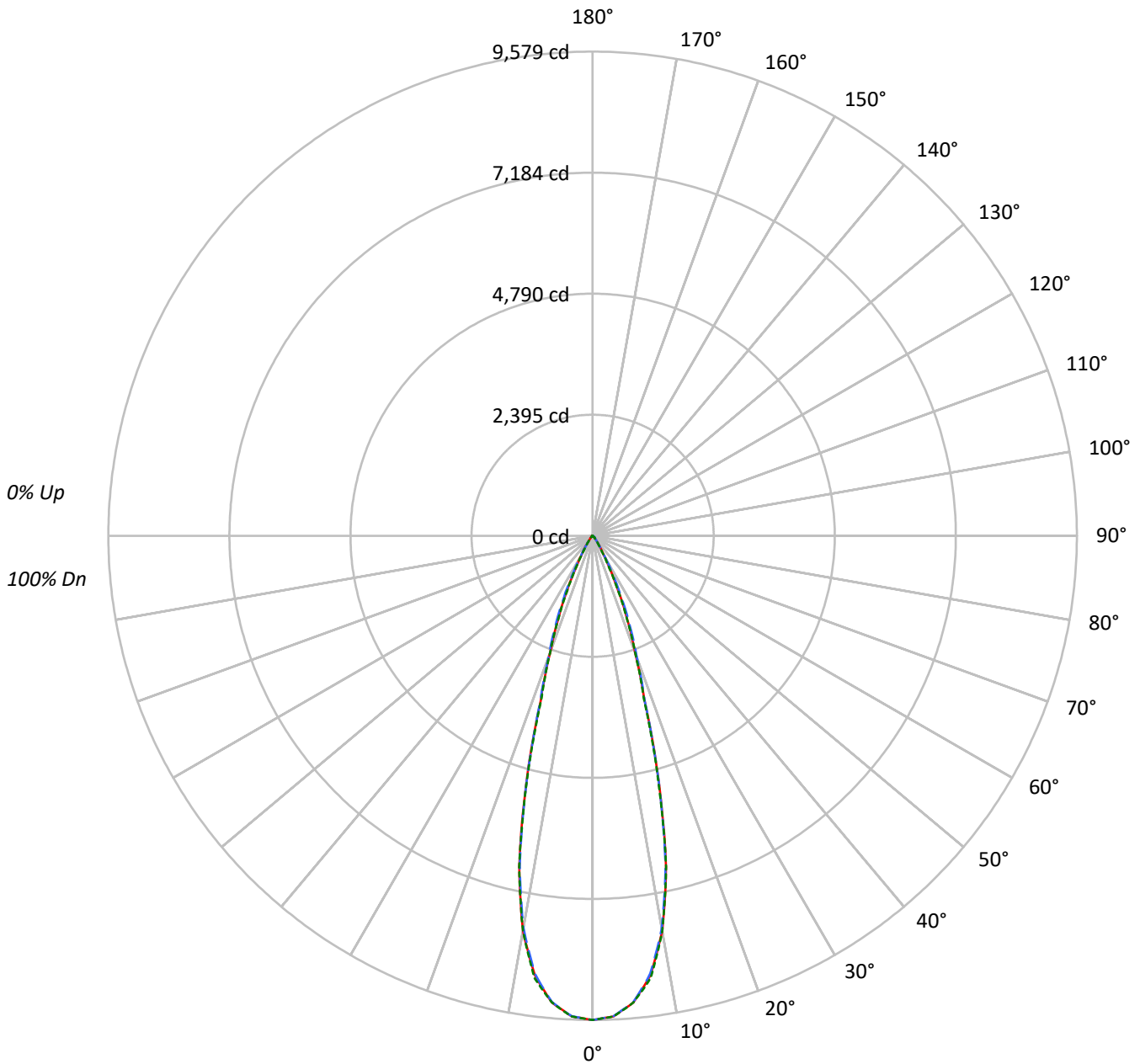


Downlight



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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°	733232	733232	733232
5°	712191	711353	712222
10°	616866	612513	616718
15°	402470	400315	398302
20°	200129	207639	199860
25°	100815	113678	98746
30°	40365	43980	35168
35°	18726	17932	15026
40°	8084	8973	7614
45°	5705	7079	5759
50°	1953	5156	2072
55°	1134	2135	1188
60°	796	934	796
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7079 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.4	28.3
10°-20°	1356.6	45.5
20°-30°	586.2	19.7
30°-40°	133.6	4.5
40°-50°	45.9	1.5
50°-60°	11.2	0.4
60°-70°	2.9	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°	2785.2	93.5
0°-40°	2918.8	98.0
0°-60°	2975.9	99.9
0°-90°	2979.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2979.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9579	9579	9579	9579	9579	
5°	9269	9260	9258	9277	9269	843
15°	5079	5018	5052	5035	5026	1360
25°	1194	1239	1346	1207	1169	571
35°	200	205	192	190	161	136
45°	53	65	65	65	53	37
55°	8	9	16	9	9	8
65°	3	3	3	3	3	3
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°	9579.3	9579.3	9579.3	9579.3	9579.3
2.5°	9515.9	9509.3	9513.0	9517.7	9519.6
5°	9269.0	9260.0	9258.1	9277.4	9269.4
7.5°	8770.9	8758.2	8738.9	8782.6	8823.6
10°	7936.6	7922.4	7880.6	7901.3	7934.7
12.5°	6704.8	6659.2	6658.3	6724.1	6715.2
15°	5078.9	5017.8	5051.7	5035.2	5026.3
17.5°	3415.4	3391.9	3437.1	3423.4	3364.7
20°	2456.9	2463.1	2549.1	2505.9	2453.6
22.5°	1792.8	1814.9	1917.0	1805.5	1764.6
25°	1193.7	1238.8	1346.0	1207.3	1169.2
27.5°	734.2	754.9	863.5	724.8	704.0
30°	456.7	446.3	497.6	427.0	397.9
32.5°	299.6	286.4	302.9	271.9	248.3
35°	200.4	204.6	191.9	190.4	160.8
37.5°	125.1	143.9	127.0	135.4	103.5
40°	80.9	104.4	89.8	99.2	76.2
42.5°	66.3	80.4	73.9	78.6	67.7
45°	52.7	65.4	65.4	65.4	53.2
47.5°	29.2	43.7	56.0	44.7	31.1
50°	16.4	22.1	43.3	23.0	17.4
52.5°	11.3	12.7	29.6	13.2	11.7
55°	8.5	8.9	16.0	9.4	8.9
57.5°	6.6	7.0	8.5	7.0	6.6
60°	5.2	5.2	6.1	5.7	5.2
62.5°	3.8	3.8	4.2	3.8	3.8
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	0.9	0.9	0.9	1.4
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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