

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: P742128

Luminaire Tested: LD4D10D010-EU4DR300210IC9030-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742128
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: LD4D10D010-EU4DR300210IC9030-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 1024.7 lumens
Efficiency: N/A
Efficacy: 87.6 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): 11.7
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



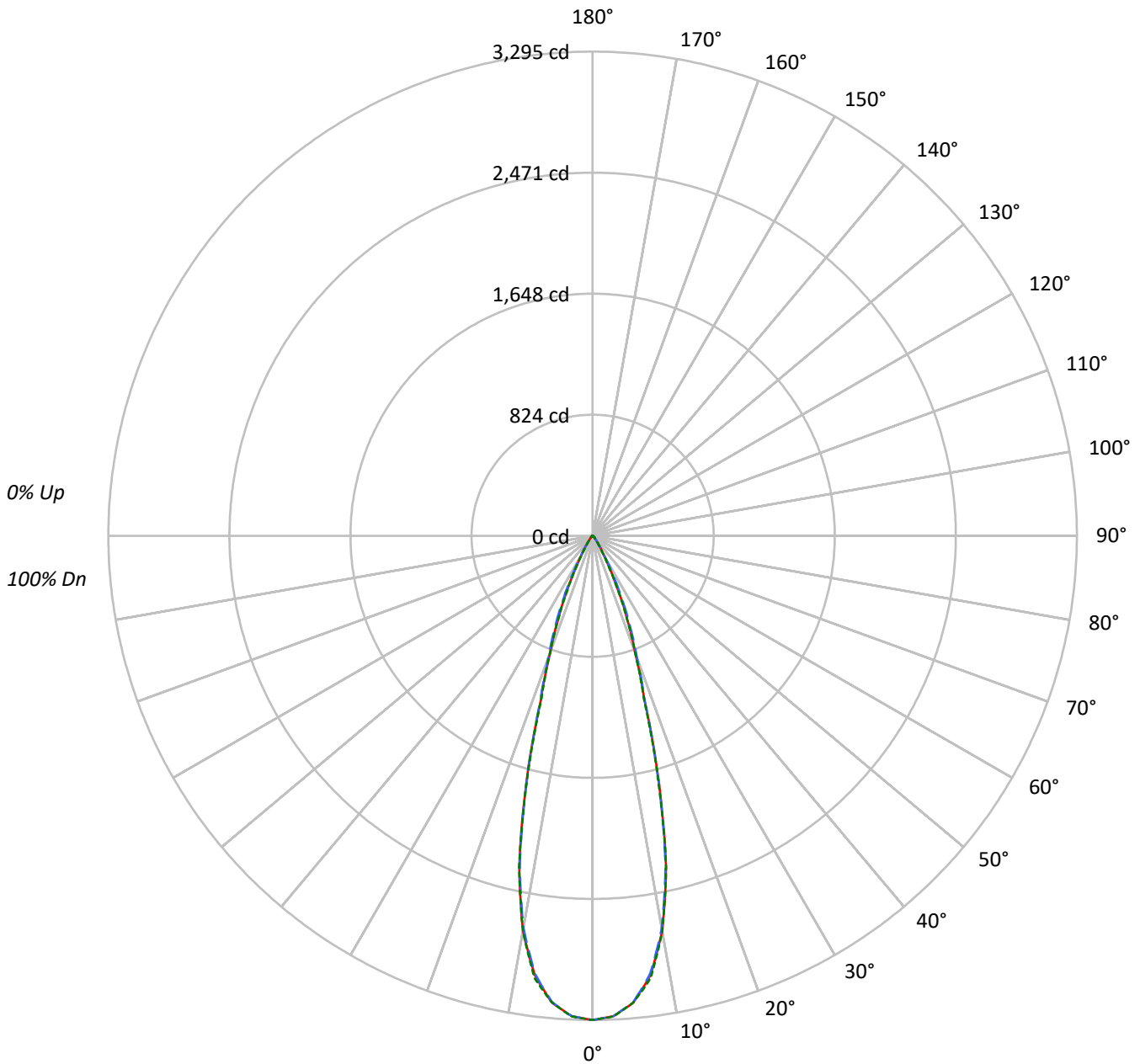
Downlight



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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°	252203	252203	252203
5°	244960	244676	244976
10°	212179	210679	212125
15°	138431	137694	136996
20°	68838	71420	68749
25°	34678	39103	33968
30°	13885	15123	12100
35°	6438	6167	5167
40°	2778	3088	2618
45°	1959	2436	1981
50°	679	1774	714
55°	387	734	414
60°	276	321	276
65°	181	181	181
70°	112	67	112
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2436 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	28.3
10°-20°	466.6	45.5
20°-30°	201.6	19.7
30°-40°	46.0	4.5
40°-50°	15.8	1.5
50°-60°	3.9	0.4
60°-70°	1.0	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°	958.0	93.5
0°-40°	1004.0	98.0
0°-60°	1023.6	99.9
0°-90°	1024.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3295	3295	3295	3295	3295	
5°	3188	3185	3184	3191	3188	290
15°	1747	1726	1738	1732	1729	468
25°	411	426	463	415	402	197
35°	69	70	66	66	55	47
45°	18	22	22	22	18	13
55°	3	3	6	3	3	3
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3294.9	3294.9	3294.9	3294.9	3294.9
2.5°	3273.1	3270.8	3272.1	3273.7	3274.4
5°	3188.1	3185.1	3184.4	3191.0	3188.3
7.5°	3016.8	3012.5	3005.8	3020.9	3035.0
10°	2729.9	2725.0	2710.6	2717.7	2729.2
12.5°	2306.2	2290.5	2290.1	2312.8	2309.7
15°	1746.9	1725.9	1737.6	1731.9	1728.8
17.5°	1174.8	1166.7	1182.2	1177.5	1157.3
20°	845.1	847.2	876.8	861.9	844.0
22.5°	616.7	624.3	659.4	621.0	607.0
25°	410.6	426.1	463.0	415.3	402.2
27.5°	252.5	259.7	297.0	249.3	242.2
30°	157.1	153.5	171.1	146.9	136.9
32.5°	103.1	98.5	104.2	93.5	85.4
35°	68.9	70.4	66.0	65.5	55.3
37.5°	43.0	49.5	43.7	46.6	35.6
40°	27.8	35.9	30.9	34.1	26.2
42.5°	22.8	27.7	25.4	27.0	23.3
45°	18.1	22.5	22.5	22.5	18.3
47.5°	10.0	15.1	19.3	15.4	10.7
50°	5.7	7.6	14.9	7.9	6.0
52.5°	3.9	4.4	10.2	4.5	4.1
55°	2.9	3.1	5.5	3.2	3.1
57.5°	2.3	2.4	2.9	2.4	2.3
60°	1.8	1.8	2.1	1.9	1.8
62.5°	1.3	1.3	1.4	1.3	1.3
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.6	0.6	0.6	0.6
70°	0.5	0.3	0.3	0.3	0.5
72.5°	0.3	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

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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