

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: P742154

Luminaire Tested: LD4D10D010-EU4DR300210IC9040-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742154
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-EU4DR300210IC9040-4LBDP1LI
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: 1111.7 lumens
Efficiency: N/A
Efficacy: 95.0 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



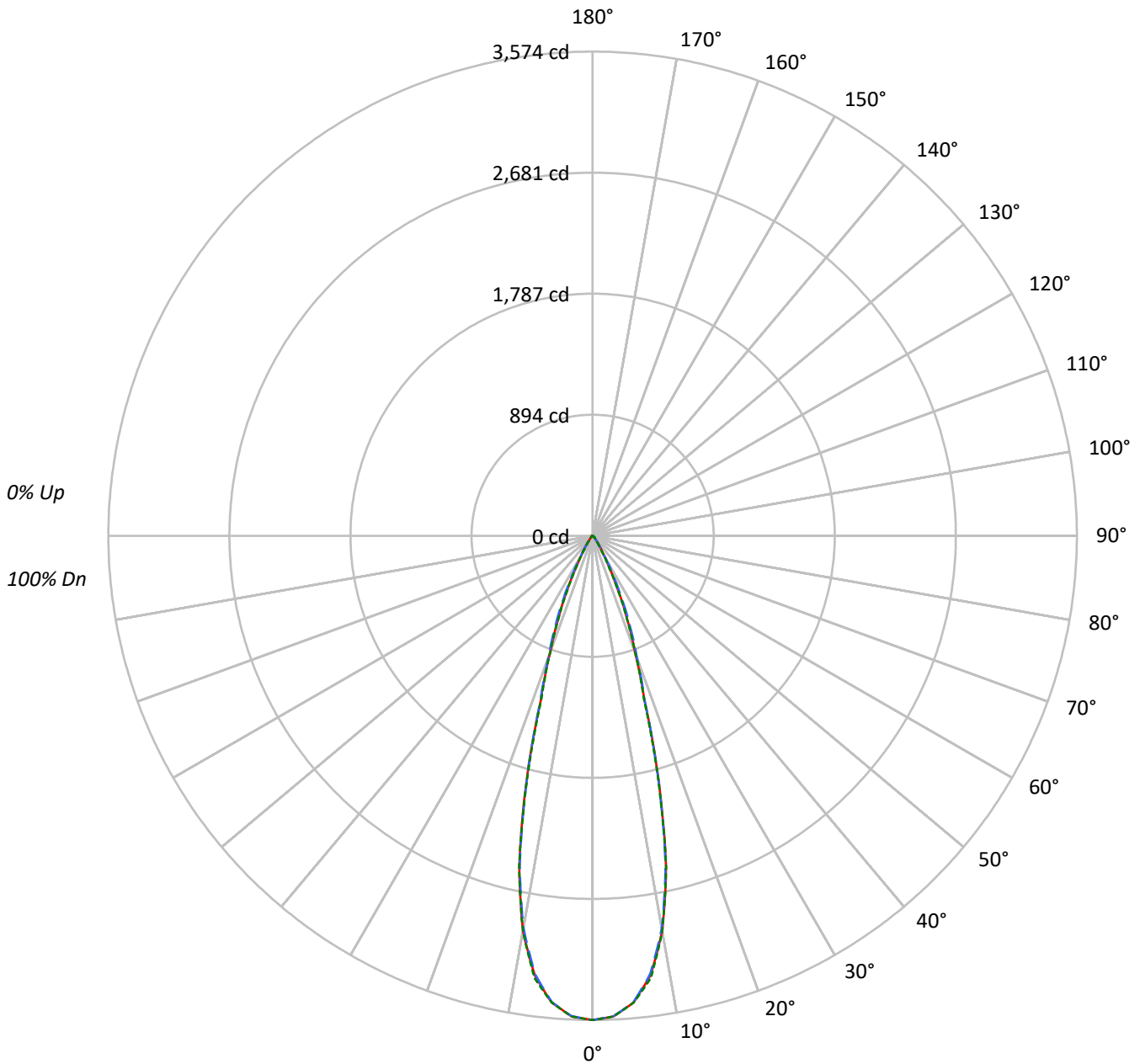
Downlight



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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°	273604	273604	273604
5°	265752	265445	265767
10°	230180	228564	230126
15°	150182	149374	148629
20°	74679	77481	74581
25°	37617	42414	36848
30°	15061	16413	13125
35°	6989	6690	5607
40°	3018	3347	2838
45°	2132	2641	2143
50°	726	1929	774
55°	427	801	440
60°	291	352	291
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: 2641 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.3	28.3
10°-20°	506.2	45.5
20°-30°	218.7	19.7
30°-40°	49.9	4.5
40°-50°	17.1	1.5
50°-60°	4.2	0.4
60°-70°	1.1	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°	1039.3	93.5
0°-40°	1089.2	98.0
0°-60°	1110.5	99.9
0°-90°	1111.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1111.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3574	3574	3574	3574	3574	
5°	3459	3455	3455	3462	3459	315
15°	1895	1872	1885	1879	1876	507
25°	445	462	502	450	436	213
35°	75	76	72	71	60	51
45°	20	24	24	24	20	14
55°	3	3	6	4	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3574.5	3574.5	3574.5	3574.5	3574.5
2.5°	3550.9	3548.4	3549.8	3551.6	3552.2
5°	3458.7	3455.4	3454.7	3461.9	3458.9
7.5°	3272.9	3268.1	3260.9	3277.2	3292.5
10°	2961.5	2956.3	2940.7	2948.3	2960.8
12.5°	2501.9	2484.9	2484.5	2509.1	2505.7
15°	1895.2	1872.4	1885.0	1878.9	1875.6
17.5°	1274.5	1265.7	1282.6	1277.5	1255.5
20°	916.8	919.1	951.2	935.1	915.6
22.5°	669.0	677.2	715.3	673.7	658.5
25°	445.4	462.3	502.2	450.5	436.3
27.5°	273.9	281.7	322.2	270.4	262.7
30°	170.4	166.6	185.7	159.3	148.5
32.5°	111.8	106.9	113.0	101.4	92.6
35°	74.8	76.3	71.6	71.1	60.0
37.5°	46.7	53.7	47.4	50.5	38.6
40°	30.2	39.0	33.5	37.0	28.4
42.5°	24.8	30.0	27.6	29.3	25.3
45°	19.7	24.4	24.4	24.4	19.8
47.5°	10.9	16.3	20.9	16.7	11.6
50°	6.1	8.3	16.2	8.6	6.5
52.5°	4.2	4.8	11.1	4.9	4.4
55°	3.2	3.3	6.0	3.5	3.3
57.5°	2.5	2.6	3.2	2.6	2.5
60°	1.9	1.9	2.3	2.1	1.9
62.5°	1.4	1.4	1.6	1.4	1.4
65°	1.0	1.0	1.0	1.0	1.0
67.5°	0.5	0.7	0.7	0.7	0.7
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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