

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: P742158

Luminaire Tested: LD4D10D010-EU4DR300210IC9040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742158
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-EU4DR300210IC9040-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 1170.2 lumens
Efficiency: N/A
Efficacy: 100.0 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

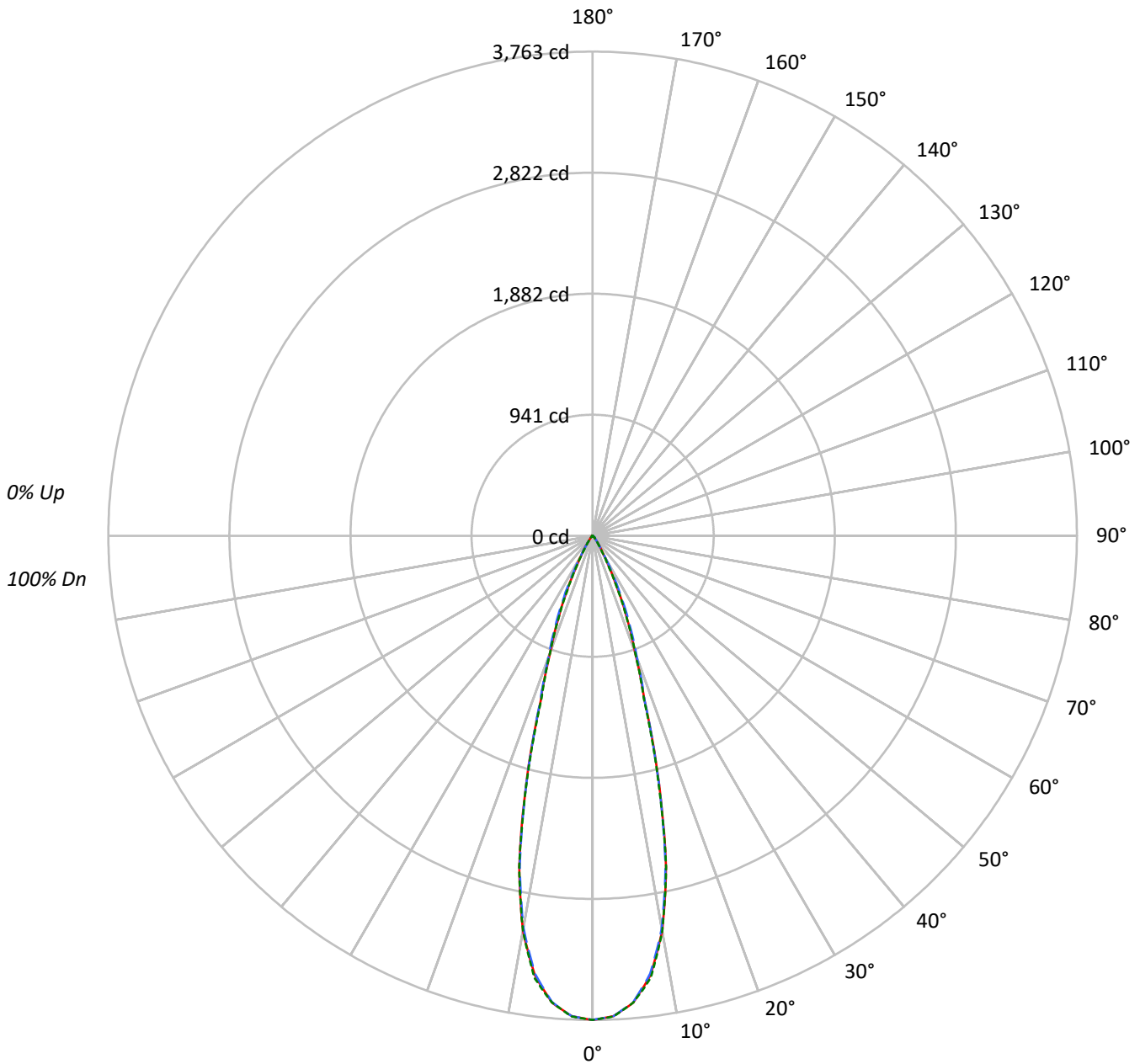


Downlight



TEST NUMBER: P742158
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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	288010	288010	288010
5°	279744	279413	279751
10°	242297	240587	242243
15°	158091	157235	156451
20°	78613	81562	78507
25°	39593	44652	38791
30°	15856	17270	13815
35°	7354	7046	5906
40°	3177	3527	2988
45°	2241	2782	2262
50°	774	2024	810
55°	440	841	467
60°	306	367	306
65°	199	199	199
70°	134	67	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2782 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.9	28.3
10°-20°	532.9	45.5
20°-30°	230.3	19.7
30°-40°	52.5	4.5
40°-50°	18.0	1.5
50°-60°	4.4	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°	1094.0	93.5
0°-40°	1146.5	98.0
0°-60°	1168.9	99.9
0°-90°	1170.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1170.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3763	3763	3763	3763	3763	
5°	3641	3637	3636	3644	3641	331
15°	1995	1971	1984	1978	1974	534
25°	469	487	529	474	459	224
35°	79	80	75	75	63	53
45°	21	26	26	26	21	15
55°	3	4	6	4	4	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°	3762.7	3762.7	3762.7	3762.7	3762.7
2.5°	3737.8	3735.1	3736.6	3738.4	3739.2
5°	3640.8	3637.3	3636.5	3644.1	3640.9
7.5°	3445.1	3440.1	3432.5	3449.7	3465.8
10°	3117.4	3111.9	3095.4	3103.6	3116.7
12.5°	2633.6	2615.6	2615.3	2641.1	2637.6
15°	1995.0	1971.0	1984.2	1977.8	1974.3
17.5°	1341.6	1332.3	1350.0	1344.7	1321.6
20°	965.1	967.4	1001.3	984.3	963.8
22.5°	704.2	712.9	753.0	709.2	693.1
25°	468.8	486.6	528.7	474.2	459.3
27.5°	288.4	296.5	339.2	284.7	276.6
30°	179.4	175.3	195.4	167.8	156.3
32.5°	117.7	112.5	118.9	106.8	97.5
35°	78.7	80.4	75.4	74.8	63.2
37.5°	49.2	56.6	49.9	53.2	40.6
40°	31.8	41.0	35.3	39.0	29.9
42.5°	26.1	31.6	29.0	30.8	26.6
45°	20.7	25.7	25.7	25.7	20.9
47.5°	11.5	17.2	22.0	17.5	12.2
50°	6.5	8.7	17.0	9.1	6.8
52.5°	4.4	5.0	11.6	5.2	4.6
55°	3.3	3.5	6.3	3.7	3.5
57.5°	2.6	2.8	3.3	2.8	2.6
60°	2.0	2.0	2.4	2.2	2.0
62.5°	1.5	1.5	1.7	1.5	1.5
65°	1.1	1.1	1.1	1.1	1.1
67.5°	0.6	0.7	0.7	0.7	0.7
70°	0.6	0.3	0.3	0.3	0.6
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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