

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: P742157

Luminaire Tested: LD4D10D010-EU4DR300210IC9040-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742157
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-EU4DR300210IC9040-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 1114.4 lumens
Efficiency: N/A
Efficacy: 95.3 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

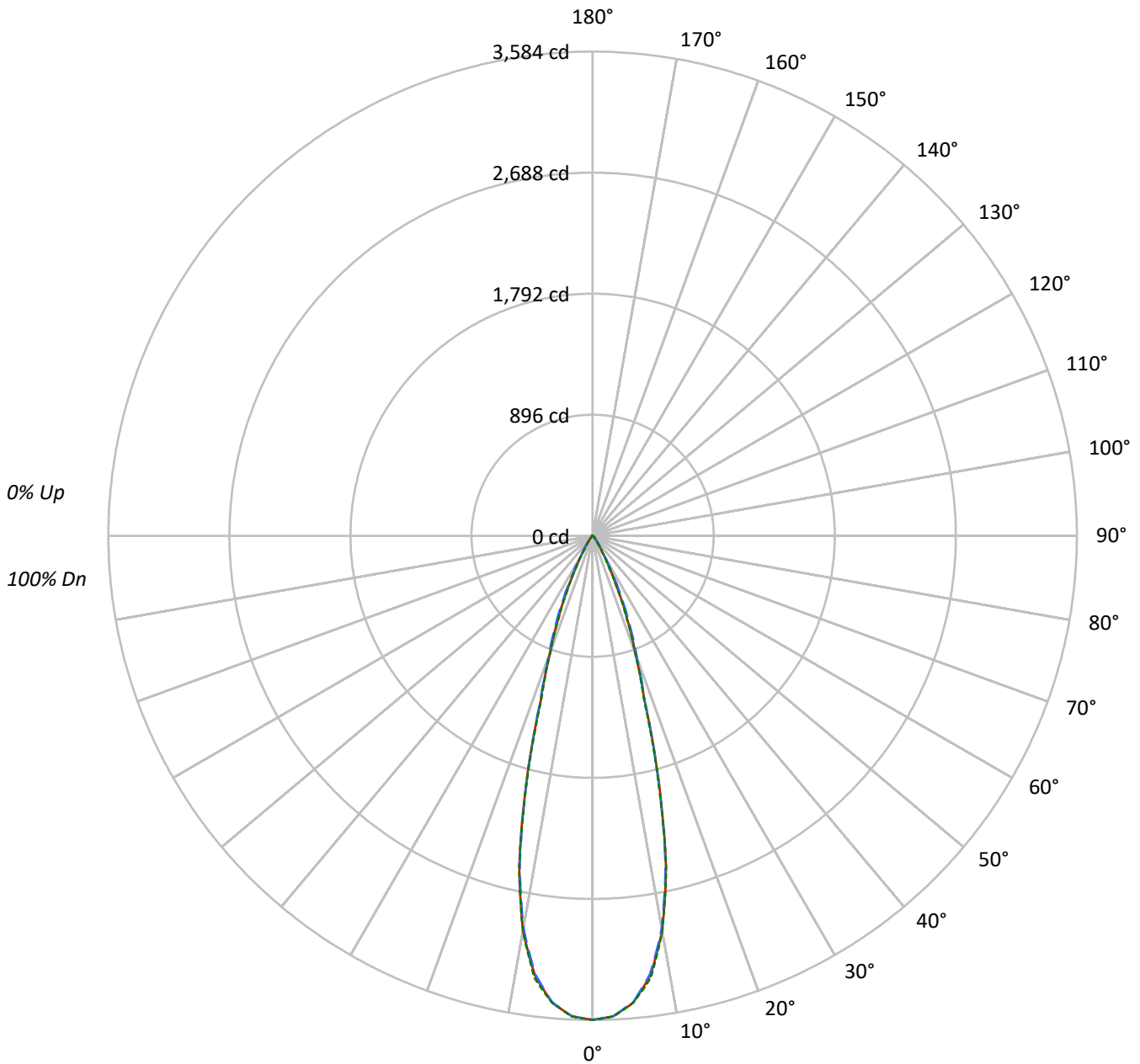


Downlight



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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																			
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	87	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°	274293	274293	274293
5°	266420	266105	266436
10°	230763	229131	230701
15°	150563	149754	149002
20°	74866	77676	74768
25°	37718	42524	36941
30°	15105	16457	13160
35°	6999	6709	5625
40°	3028	3357	2848
45°	2132	2652	2154
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: 2652 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.1	28.3
10°-20°	507.5	45.5
20°-30°	219.3	19.7
30°-40°	50.0	4.5
40°-50°	17.2	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°	1041.9	93.5
0°-40°	1091.9	98.0
0°-60°	1113.3	99.9
0°-90°	1114.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1114.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3584	3584	3584	3584	3584	
5°	3467	3464	3463	3470	3468	315
15°	1900	1877	1890	1884	1880	509
25°	447	463	504	452	437	214
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°	3583.5	3583.5	3583.5	3583.5	3583.5
2.5°	3559.7	3557.3	3558.7	3560.4	3561.2
5°	3467.4	3464.1	3463.3	3470.5	3467.6
7.5°	3281.1	3276.3	3269.1	3285.5	3300.8
10°	2969.0	2963.6	2948.0	2955.7	2968.2
12.5°	2508.1	2491.1	2490.7	2515.4	2512.0
15°	1900.0	1877.1	1889.8	1883.6	1880.3
17.5°	1277.7	1268.9	1285.8	1280.7	1258.7
20°	919.1	921.4	953.6	937.4	917.9
22.5°	670.7	678.9	717.1	675.5	660.1
25°	446.6	463.4	503.5	451.7	437.4
27.5°	274.6	282.4	323.0	271.1	263.4
30°	170.9	167.0	186.2	159.7	148.9
32.5°	112.1	107.1	113.3	101.7	92.9
35°	74.9	76.5	71.8	71.3	60.2
37.5°	46.8	53.9	47.5	50.6	38.7
40°	30.3	39.1	33.6	37.1	28.5
42.5°	24.8	30.1	27.6	29.4	25.3
45°	19.7	24.5	24.5	24.5	19.9
47.5°	10.9	16.4	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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