

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: P742159

Luminaire Tested: LD4D10D010-EU4DR300210IC9040-4LBS1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742159
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-EU4DR300210IC9040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1059.3 lumens
Efficiency: N/A
Efficacy: 90.5 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



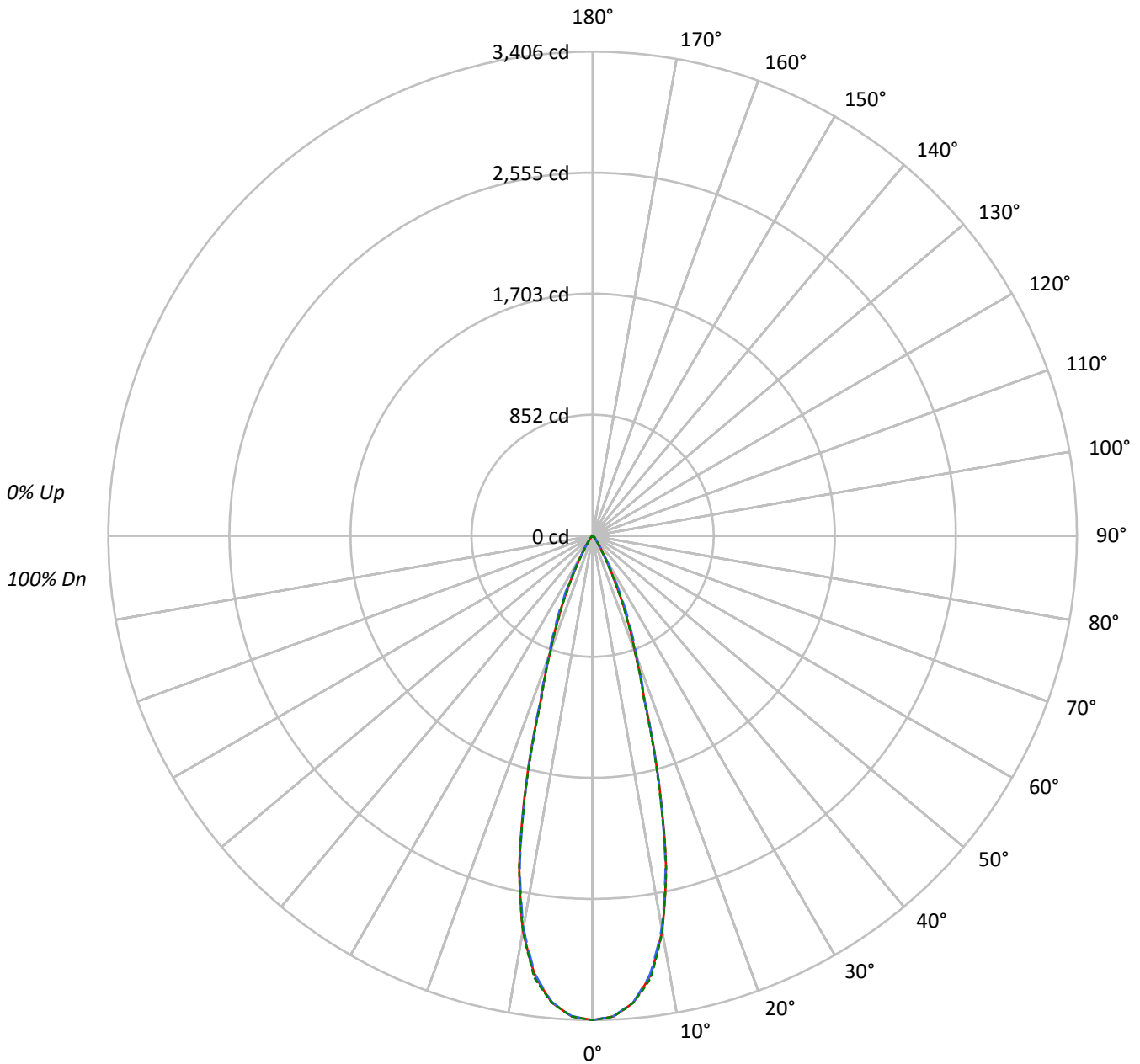
Downlight



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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	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°	260730	260730	260730
5°	253243	252951	253258
10°	219345	217799	219299
15°	143114	142345	141632
20°	71160	73832	71070
25°	35843	40421	35108
30°	14354	15635	12506
35°	6653	6373	5345
40°	2878	3197	2708
45°	2024	2522	2046
50°	691	1834	738
55°	400	761	427
60°	276	337	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: 2522 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.5	28.3
10°-20°	482.4	45.5
20°-30°	208.4	19.7
30°-40°	47.5	4.5
40°-50°	16.3	1.5
50°-60°	4.0	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°	990.4	93.5
0°-40°	1037.9	98.0
0°-60°	1058.2	99.9
0°-90°	1059.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1059.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3406	3406	3406	3406	3406	
5°	3296	3293	3292	3299	3296	300
15°	1806	1784	1796	1790	1787	484
25°	424	440	479	429	416	203
35°	71	73	68	68	57	48
45°	19	23	23	23	19	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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3406.3	3406.3	3406.3	3406.3	3406.3
2.5°	3383.7	3381.4	3382.7	3384.4	3385.1
5°	3295.9	3292.7	3292.1	3298.9	3296.1
7.5°	3118.8	3114.3	3107.5	3123.0	3137.5
10°	2822.1	2817.1	2802.2	2809.6	2821.5
12.5°	2384.2	2367.9	2367.6	2391.0	2387.8
15°	1806.0	1784.3	1796.3	1790.5	1787.3
17.5°	1214.5	1206.1	1222.2	1217.3	1196.4
20°	873.6	875.8	906.4	891.1	872.5
22.5°	637.5	645.4	681.6	642.0	627.5
25°	424.4	440.5	478.6	429.3	415.7
27.5°	261.0	268.4	307.0	257.7	250.4
30°	162.4	158.7	176.9	151.8	141.5
32.5°	106.5	101.9	107.7	96.7	88.3
35°	71.2	72.8	68.2	67.7	57.2
37.5°	44.5	51.2	45.1	48.2	36.8
40°	28.8	37.1	32.0	35.3	27.1
42.5°	23.6	28.6	26.2	27.9	24.1
45°	18.7	23.3	23.3	23.3	18.9
47.5°	10.4	15.5	19.9	15.9	11.1
50°	5.8	7.8	15.4	8.2	6.2
52.5°	4.0	4.5	10.5	4.7	4.2
55°	3.0	3.2	5.7	3.3	3.2
57.5°	2.3	2.5	3.0	2.5	2.3
60°	1.8	1.8	2.2	2.0	1.8
62.5°	1.3	1.3	1.5	1.3	1.3
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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