

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: P742173

Luminaire Tested: LD4D10D010-EU4DR300210IC9050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P742173
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-EU4DR300210IC9050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 794.5 lumens
Efficiency: N/A
Efficacy: 67.9 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 (Ain): 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

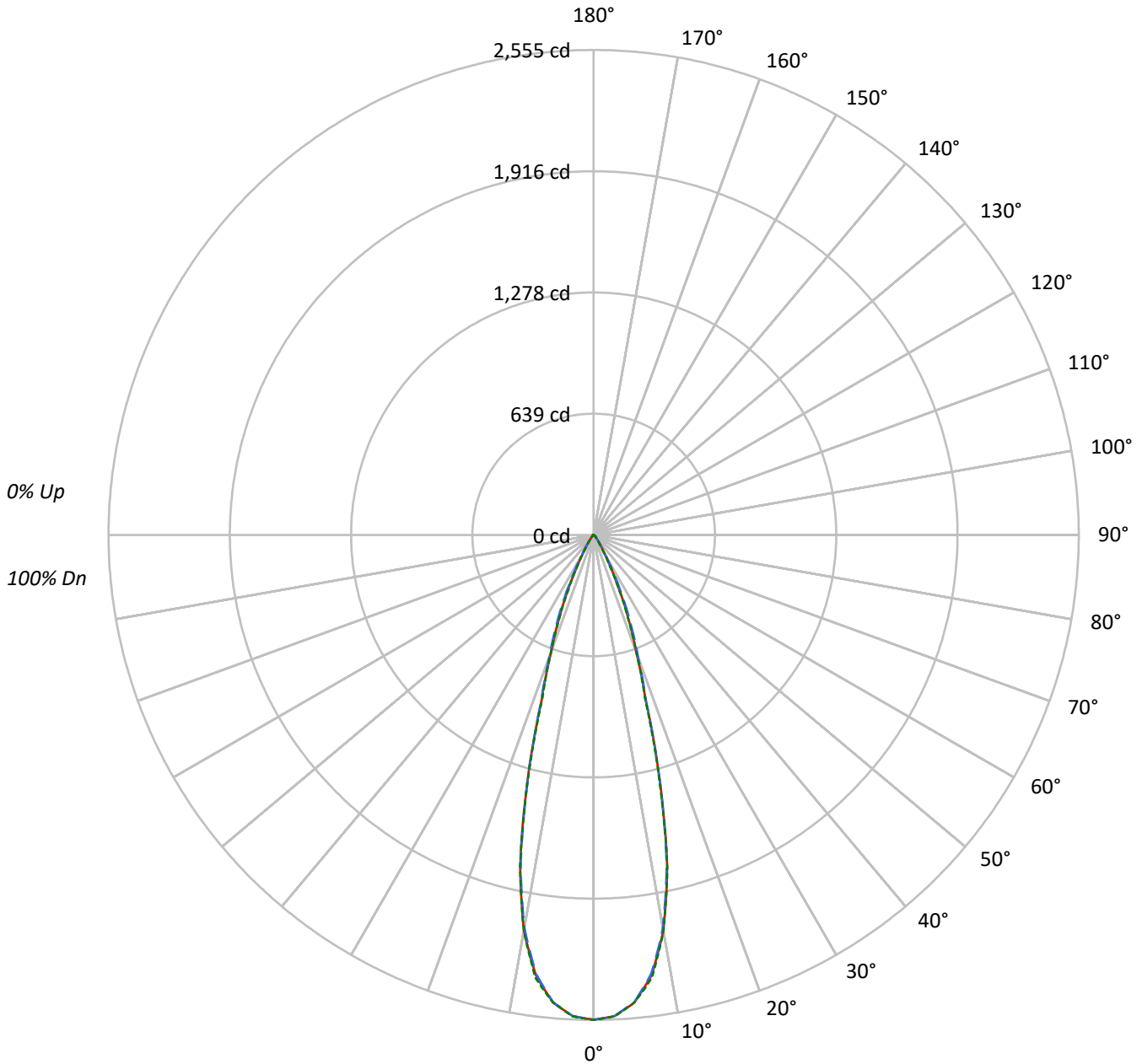


Downlight



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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	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°	195545	195545	195545
5°	189930	189708	189946
10°	164511	163345	164472
15°	107335	106757	106218
20°	53370	55374	53305
25°	26882	30320	26333
30°	10765	11729	9378
35°	4999	4784	4009
40°	2158	2388	2028
45°	1515	1884	1537
50°	524	1369	548
55°	294	560	320
60°	214	245	214
65°	127	127	127
70°	90	45	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1884 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	28.3
10°-20°	361.8	45.5
20°-30°	156.3	19.7
30°-40°	35.6	4.5
40°-50°	12.2	1.5
50°-60°	3.0	0.4
60°-70°	0.8	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°	742.8	93.5
0°-40°	778.4	98.0
0°-60°	793.6	99.9
0°-90°	794.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	794.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2555	2555	2555	2555	2555	
5°	2472	2470	2469	2474	2472	225
15°	1354	1338	1347	1343	1340	363
25°	318	330	359	322	312	152
35°	54	54	51	51	43	36
45°	14	17	17	17	14	10
55°	2	2	4	2	2	2
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°	2554.7	2554.7	2554.7	2554.7	2554.7
2.5°	2537.8	2536.0	2537.0	2538.3	2538.7
5°	2471.9	2469.5	2469.0	2474.2	2472.1
7.5°	2339.1	2335.7	2330.6	2342.2	2353.2
10°	2116.6	2112.8	2101.6	2107.2	2116.1
12.5°	1788.1	1775.9	1775.7	1793.2	1790.9
15°	1354.5	1338.2	1347.2	1342.8	1340.4
17.5°	910.9	904.6	916.6	913.0	897.3
20°	655.2	656.9	679.8	668.3	654.4
22.5°	478.1	484.0	511.2	481.5	470.6
25°	318.3	330.4	359.0	322.0	311.8
27.5°	195.8	201.3	230.3	193.3	187.8
30°	121.8	119.0	132.7	113.9	106.1
32.5°	79.9	76.4	80.8	72.5	66.2
35°	53.5	54.5	51.2	50.8	42.9
37.5°	33.3	38.4	33.9	36.1	27.6
40°	21.6	27.8	23.9	26.5	20.3
42.5°	17.7	21.4	19.7	21.0	18.0
45°	14.0	17.4	17.4	17.4	14.2
47.5°	7.8	11.7	15.0	11.9	8.3
50°	4.4	5.9	11.5	6.1	4.6
52.5°	3.0	3.4	7.9	3.5	3.2
55°	2.2	2.4	4.2	2.5	2.4
57.5°	1.8	1.9	2.2	1.9	1.8
60°	1.4	1.4	1.6	1.5	1.4
62.5°	1.0	1.0	1.1	1.0	1.0
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.4	0.5	0.5	0.5	0.5
70°	0.4	0.2	0.2	0.2	0.4
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	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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