

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: P741120

Luminaire Tested: LD4D08D010-EU4DR300210IC9030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P741120
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: LD4D08D010-EU4DR300210IC9030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 554.3 lumens
Efficiency: N/A
Efficacy: 62.3 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): 8.9
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

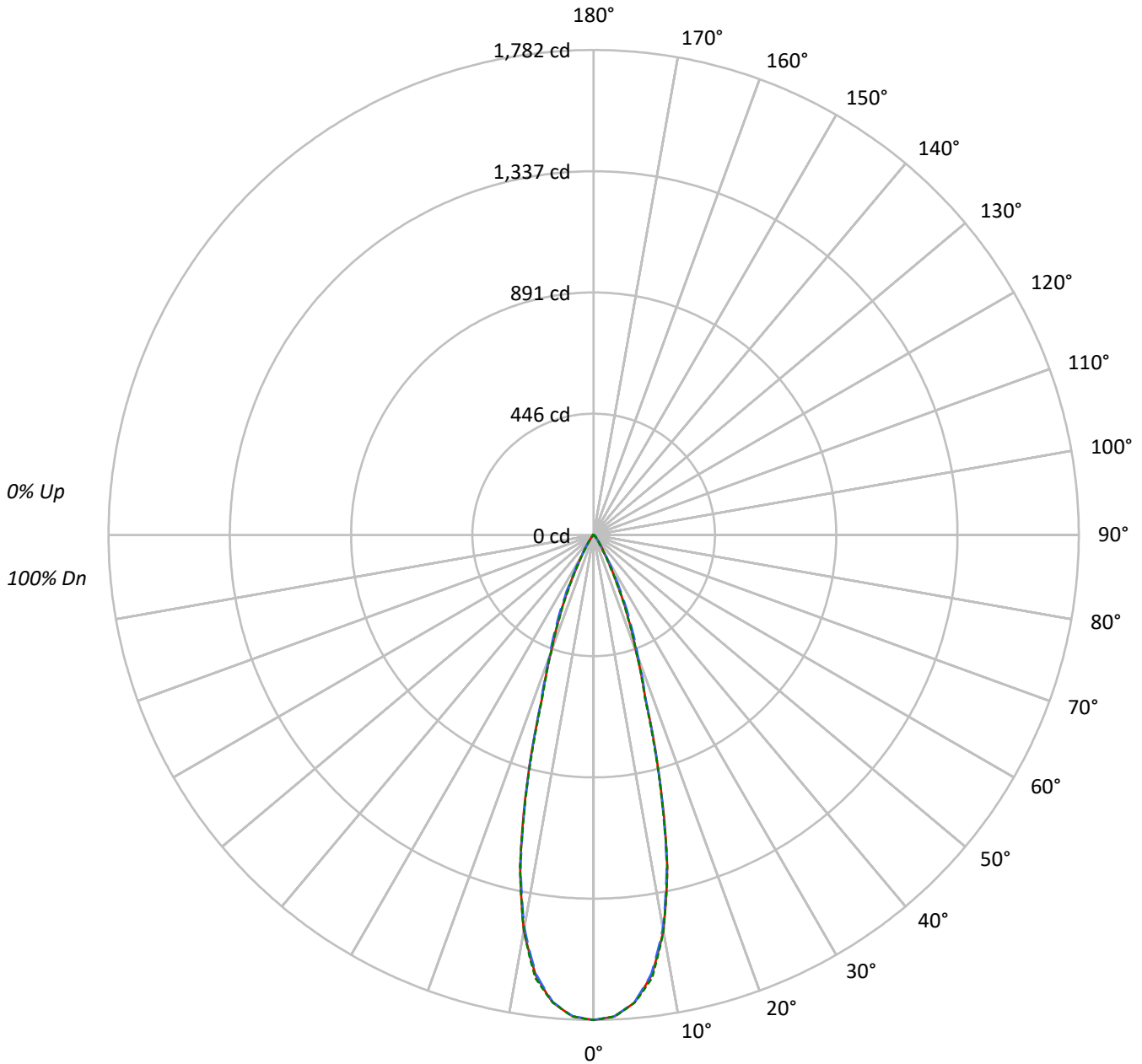


Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	136431	136431	136431
5°	132519	132365	132526
10°	114783	113975	114752
15°	74893	74489	74116
20°	37242	38634	37193
25°	18758	21148	18369
30°	7513	8184	6540
35°	3485	3336	2794
40°	1509	1669	1419
45°	1061	1310	1072
50°	357	965	393
55°	200	400	227
60°	153	168	153
65°	91	91	91
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1310 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	28.3
10°-20°	252.4	45.5
20°-30°	109.1	19.7
30°-40°	24.9	4.5
40°-50°	8.5	1.5
50°-60°	2.1	0.4
60°-70°	0.5	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°	518.3	93.5
0°-40°	543.1	98.0
0°-60°	553.7	99.9
0°-90°	554.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	554.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1725	1723	1723	1726	1725	157
15°	945	934	940	937	935	253
25°	222	230	250	225	218	106
35°	37	38	36	36	30	25
45°	10	12	12	12	10	7
55°	2	2	3	2	2	2
65°	0	0	0	0	0	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°	1782.4	1782.4	1782.4	1782.4	1782.4
2.5°	1770.6	1769.4	1770.1	1771.0	1771.3
5°	1724.7	1723.0	1722.7	1726.3	1724.8
7.5°	1632.1	1629.7	1626.1	1634.2	1641.8
10°	1476.8	1474.1	1466.4	1470.2	1476.4
12.5°	1247.6	1239.1	1238.9	1251.2	1249.5
15°	945.1	933.7	940.0	936.9	935.3
17.5°	635.5	631.2	639.5	637.0	626.1
20°	457.2	458.3	474.3	466.3	456.6
22.5°	333.6	337.7	356.7	336.0	328.4
25°	222.1	230.5	250.4	224.7	217.5
27.5°	136.6	140.5	160.7	134.9	131.0
30°	85.0	83.1	92.6	79.5	74.0
32.5°	55.7	53.3	56.4	50.6	46.2
35°	37.3	38.0	35.7	35.5	29.9
37.5°	23.3	26.8	23.6	25.2	19.3
40°	15.1	19.4	16.7	18.4	14.2
42.5°	12.3	15.0	13.8	14.6	12.6
45°	9.8	12.1	12.1	12.1	9.9
47.5°	5.4	8.1	10.4	8.3	5.8
50°	3.0	4.1	8.1	4.3	3.3
52.5°	2.1	2.3	5.5	2.5	2.2
55°	1.5	1.7	3.0	1.8	1.7
57.5°	1.2	1.3	1.5	1.3	1.2
60°	1.0	1.0	1.1	1.0	1.0
62.5°	0.7	0.7	0.8	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.2	0.2	0.2	0.3
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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