

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P741122

Luminaire Tested: LD4D08D010-EU4DR300210IC9035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P741122
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-EU4DR300210IC9035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 703.7 lumens
Efficiency: N/A
Efficacy: 79.1 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 (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



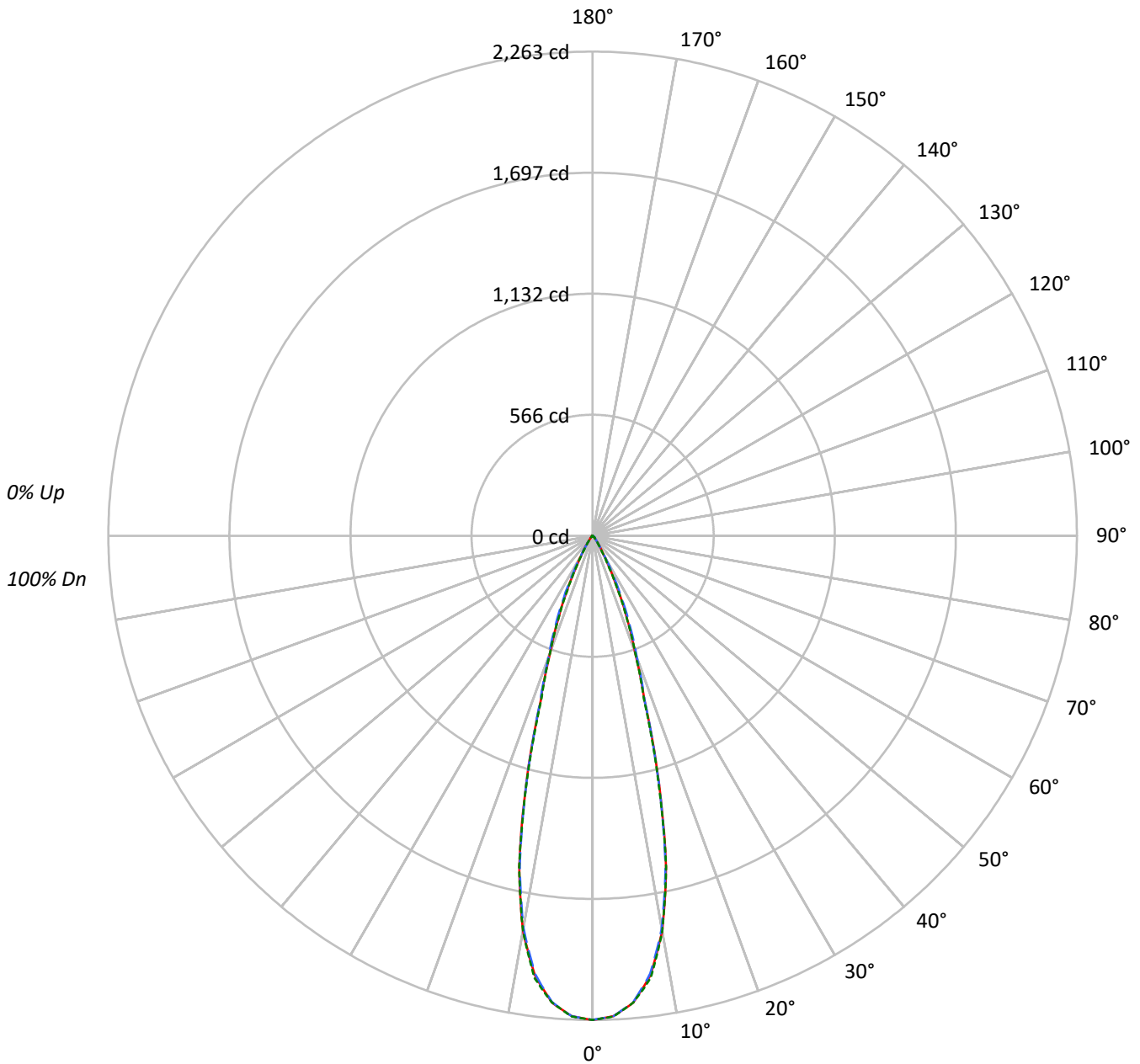
Downlight



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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°	173202	173202	173202
5°	168232	168040	168240
10°	145717	144691	145686
15°	95076	94561	94086
20°	47277	49053	47212
25°	23808	26857	23327
30°	9537	10394	8308
35°	4420	4233	3551
40°	1908	2118	1799
45°	1342	1678	1353
50°	464	1215	488
55°	267	507	280
60°	184	214	184
65°	127	127	127
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: 1678 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	28.3
10°-20°	320.5	45.5
20°-30°	138.5	19.7
30°-40°	31.6	4.5
40°-50°	10.8	1.5
50°-60°	2.6	0.4
60°-70°	0.7	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°	657.9	93.5
0°-40°	689.5	98.0
0°-60°	703.0	99.9
0°-90°	703.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	703.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2263	2263	2263	2263	2263	
5°	2190	2187	2187	2192	2190	199
15°	1200	1185	1193	1189	1187	321
25°	282	293	318	285	276	135
35°	47	48	45	45	38	32
45°	12	16	16	16	12	9
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°	2262.8	2262.8	2262.8	2262.8	2262.8
2.5°	2247.9	2246.3	2247.2	2248.3	2248.7
5°	2189.5	2187.4	2187.0	2191.5	2189.6
7.5°	2071.8	2068.9	2064.3	2074.7	2084.3
10°	1874.8	1871.4	1861.6	1866.4	1874.4
12.5°	1583.8	1573.0	1572.8	1588.3	1586.3
15°	1199.8	1185.3	1193.3	1189.4	1187.3
17.5°	806.8	801.2	811.9	808.7	794.8
20°	580.4	581.8	602.2	591.9	579.6
22.5°	423.5	428.7	452.9	426.5	416.8
25°	281.9	292.6	318.0	285.2	276.2
27.5°	173.4	178.3	204.0	171.2	166.3
30°	107.9	105.4	117.6	100.9	94.0
32.5°	70.8	67.7	71.6	64.2	58.7
35°	47.3	48.3	45.3	45.0	38.0
37.5°	29.6	34.0	30.0	32.0	24.5
40°	19.1	24.6	21.2	23.4	18.0
42.5°	15.6	19.0	17.4	18.6	16.0
45°	12.4	15.5	15.5	15.5	12.5
47.5°	6.9	10.3	13.2	10.5	7.3
50°	3.9	5.2	10.2	5.4	4.1
52.5°	2.7	3.0	7.0	3.1	2.8
55°	2.0	2.1	3.8	2.2	2.1
57.5°	1.5	1.7	2.0	1.7	1.5
60°	1.2	1.2	1.4	1.3	1.2
62.5°	0.9	0.9	1.0	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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