

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: P746812

Luminaire Tested: LD4D35BD010-EU4DR3020359050-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746812
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: LD4D35BD010-EU4DR3020359050-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

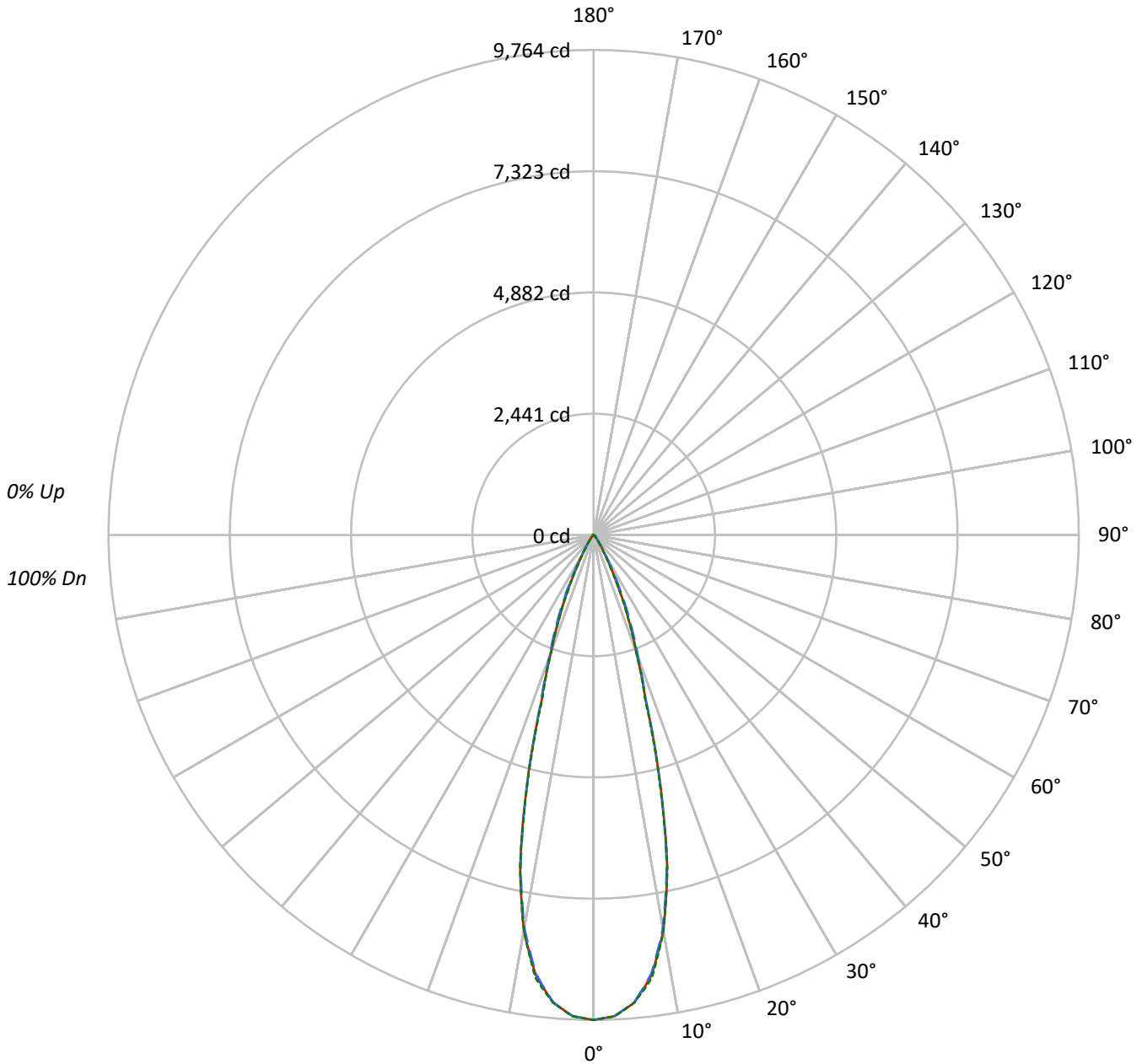
Lumens per Lamp: N/A
Luminaire Lumens: 3036.4 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 30.8
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



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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°	747331	747331	747331
5°	725875	725030	725914
10°	628719	624281	628571
15°	410204	408001	405957
20°	203973	211630	203705
25°	102750	115866	100647
30°	41143	44829	35840
35°	19081	18277	15315
40°	8233	9153	7764
45°	5813	7209	5867
50°	2001	5251	2108
55°	1148	2175	1214
60°	811	949	811
65°	525	525	525
70°	313	224	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 7209 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	858.5	28.3
10°-20°	1382.7	45.5
20°-30°	597.5	19.7
30°-40°	136.2	4.5
40°-50°	46.8	1.5
50°-60°	11.4	0.4
60°-70°	3.0	0.1
70°-80°	0.3	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°	2838.8	93.5
0°-40°	2974.9	98.0
0°-60°	3033.1	99.9
0°-90°	3036.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3036.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9764	9764	9764	9764	9764	
5°	9447	9438	9436	9456	9448	859
15°	5176	5114	5149	5132	5123	1386
25°	1217	1263	1372	1230	1192	582
35°	204	208	196	194	164	138
45°	54	67	67	67	54	38
55°	9	9	16	10	9	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9763.5	9763.5	9763.5	9763.5	9763.5
2.5°	9698.8	9692.0	9695.9	9700.7	9702.6
5°	9447.1	9438.0	9436.1	9455.7	9447.6
7.5°	8939.5	8926.5	8906.9	8951.4	8993.2
10°	8089.1	8074.7	8032.0	8053.1	8087.2
12.5°	6833.7	6787.2	6786.2	6853.3	6844.2
15°	5176.5	5114.2	5148.7	5132.0	5122.9
17.5°	3481.1	3457.1	3503.1	3489.2	3429.3
20°	2504.1	2510.4	2598.1	2554.0	2500.8
22.5°	1827.3	1849.8	1953.8	1840.2	1798.5
25°	1216.6	1262.6	1371.9	1230.5	1191.7
27.5°	748.3	769.4	880.1	738.7	717.6
30°	465.5	454.9	507.2	435.3	405.5
32.5°	305.3	291.9	308.7	277.1	253.1
35°	204.2	208.5	195.6	194.1	163.9
37.5°	127.5	146.7	129.4	138.1	105.5
40°	82.4	106.4	91.6	101.1	77.7
42.5°	67.6	82.0	75.3	80.1	69.0
45°	53.7	66.6	66.6	66.6	54.2
47.5°	29.7	44.6	57.0	45.5	31.6
50°	16.8	22.5	44.1	23.5	17.7
52.5°	11.5	12.9	30.2	13.4	12.0
55°	8.6	9.1	16.3	9.6	9.1
57.5°	6.7	7.2	8.6	7.2	6.7
60°	5.3	5.3	6.2	5.8	5.3
62.5°	3.8	3.8	4.3	3.8	3.8
65°	2.9	2.9	2.9	2.9	2.9
67.5°	1.4	1.9	1.9	1.9	1.9
70°	1.4	1.0	1.0	1.0	1.4
72.5°	1.0	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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