

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: P750699

Luminaire Tested: LD4D60D010-EU4DR3055659040-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750699
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: LD4D60D010-EU4DR3055659040-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST 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: 5676.3 lumens
Efficiency: N/A
Efficacy: 88.1 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

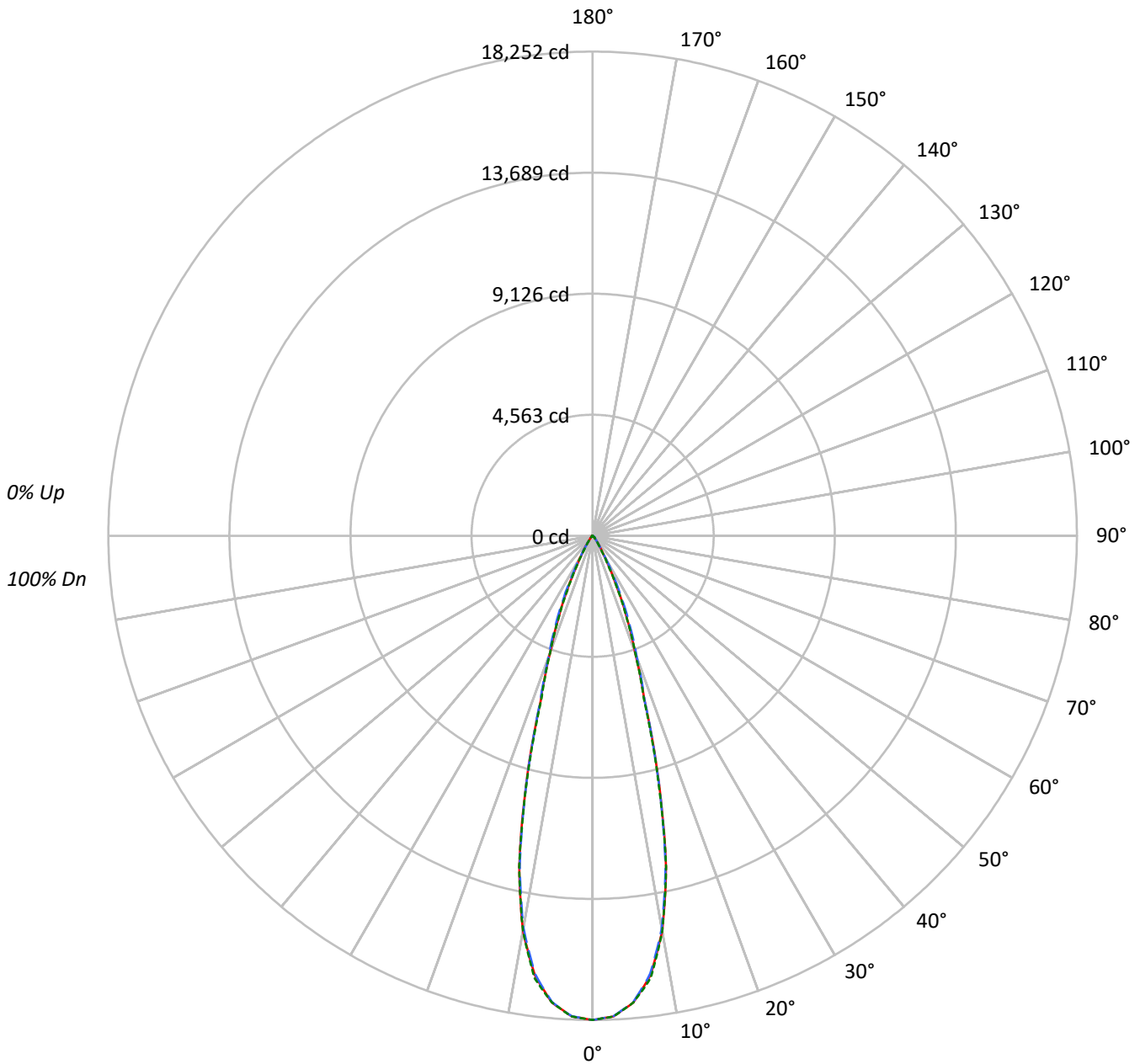
Input Watts (W): 64.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1397078	1397078	1397078
5°	1356974	1355391	1357043
10°	1175345	1167060	1175066
15°	766856	762735	758900
20°	381319	395631	380806
25°	192079	216605	188143
30°	76904	83798	67004
35°	35667	34162	28640
40°	15398	17106	14508
45°	10868	13488	10966
50°	3739	9812	3953
55°	2149	4070	2269
60°	1516	1776	1516
65°	978	978	978
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13488 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1605.0	28.3
10°-20°	2584.9	45.5
20°-30°	1117.0	19.7
30°-40°	254.6	4.5
40°-50°	87.4	1.5
50°-60°	21.3	0.4
60°-70°	5.6	0.1
70°-80°	0.6	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°	5306.9	93.5
0°-40°	5561.4	98.0
0°-60°	5670.2	99.9
0°-90°	5676.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5676.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18252	18252	18252	18252	18252	
5°	17661	17644	17640	17677	17662	1606
15°	9677	9561	9625	9594	9577	2591
25°	2274	2360	2565	2300	2228	1089
35°	382	390	366	363	306	259
45°	100	125	125	125	101	71
55°	16	17	30	18	17	16
65°	5	5	5	5	5	5
75°	0	0	1	0	0	1
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°	18252.1	18252.1	18252.1	18252.1	18252.1
2.5°	18131.2	18118.6	18125.8	18134.7	18138.3
5°	17660.7	17643.7	17640.1	17676.8	17661.6
7.5°	16711.7	16687.5	16650.8	16734.1	16812.1
10°	15122.0	15095.1	15015.4	15054.8	15118.4
12.5°	12775.1	12688.1	12686.3	12811.8	12794.8
15°	9677.2	9560.7	9625.2	9593.8	9576.8
17.5°	6507.6	6462.8	6548.8	6522.8	6410.8
20°	4681.3	4693.0	4857.0	4774.5	4675.0
22.5°	3416.0	3458.1	3652.6	3440.2	3362.2
25°	2274.3	2360.4	2564.7	2300.3	2227.7
27.5°	1398.8	1438.3	1645.3	1380.9	1341.5
30°	870.1	850.4	948.1	813.7	758.1
32.5°	570.8	545.7	577.1	518.0	473.2
35°	381.7	389.8	365.6	362.9	306.5
37.5°	238.4	274.2	242.0	258.1	197.1
40°	154.1	198.9	171.2	189.1	145.2
42.5°	126.4	153.2	140.7	149.7	129.0
45°	100.4	124.6	124.6	124.6	101.3
47.5°	55.6	83.3	106.6	85.1	59.1
50°	31.4	42.1	82.4	43.9	33.2
52.5°	21.5	24.2	56.5	25.1	22.4
55°	16.1	17.0	30.5	17.9	17.0
57.5°	12.5	13.4	16.1	13.4	12.5
60°	9.9	9.9	11.6	10.8	9.9
62.5°	7.2	7.2	8.1	7.2	7.2
65°	5.4	5.4	5.4	5.4	5.4
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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