

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: P750673

Luminaire Tested: LD4D60D010-EU4DR3055659030-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750673
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-EU4DR3055659030-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

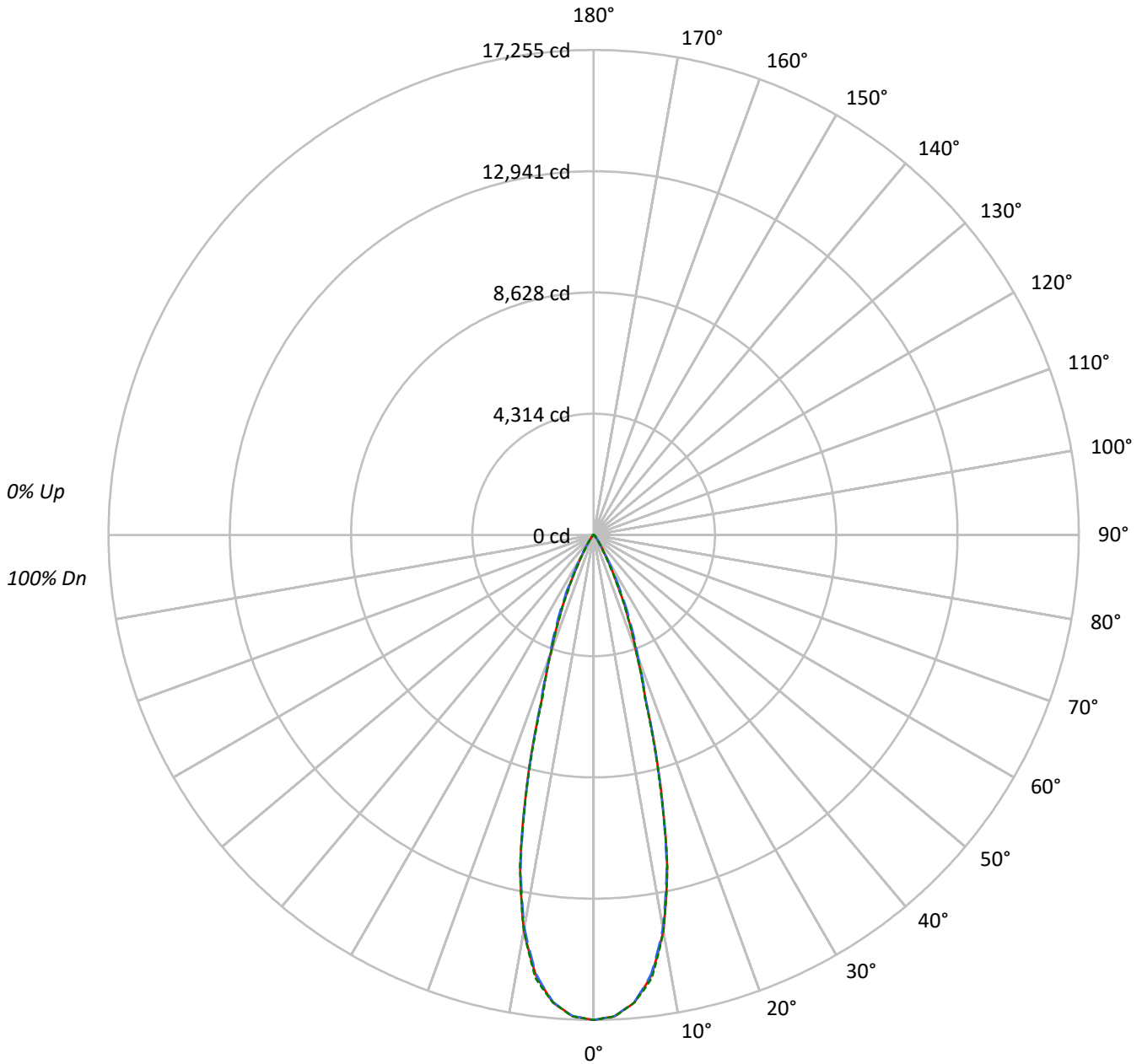
Lumens per Lamp: N/A
Luminaire Lumens: 5366.3 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 64.4
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	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°	1320772	1320772	1320772
5°	1282850	1281360	1282919
10°	1111145	1103311	1110881
15°	724968	721077	717447
20°	360491	374021	360010
25°	181589	204773	177873
30°	72705	79219	63345
35°	33723	32294	27070
40°	14558	16167	13709
45°	10273	12752	10359
50°	3537	9276	3727
55°	2028	3843	2149
60°	1424	1684	1424
65°	924	924	924
70°	559	380	559
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 12752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1517.3	28.3
10°-20°	2443.7	45.5
20°-30°	1056.0	19.7
30°-40°	240.7	4.5
40°-50°	82.6	1.5
50°-60°	20.2	0.4
60°-70°	5.2	0.1
70°-80°	0.5	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°	5017.0	93.5
0°-40°	5257.7	98.0
0°-60°	5360.5	99.9
0°-90°	5366.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5366.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17255	17255	17255	17255	17255	
5°	16696	16680	16677	16711	16697	1519
15°	9149	9038	9100	9070	9054	2450
25°	2150	2231	2425	2175	2106	1029
35°	361	368	346	343	290	245
45°	95	118	118	118	96	67
55°	15	16	29	17	16	15
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°	17255.2	17255.2	17255.2	17255.2	17255.2
2.5°	17140.8	17128.9	17135.7	17144.2	17147.6
5°	16696.0	16679.9	16676.6	16711.3	16696.9
7.5°	15798.9	15776.0	15741.3	15820.1	15893.8
10°	14296.0	14270.6	14195.2	14232.5	14292.6
12.5°	12077.3	11995.1	11993.4	12112.0	12095.9
15°	9148.6	9038.5	9099.5	9069.8	9053.7
17.5°	6152.2	6109.8	6191.1	6166.6	6060.7
20°	4425.6	4436.6	4591.7	4513.7	4419.7
22.5°	3229.4	3269.2	3453.1	3252.3	3178.6
25°	2150.1	2231.4	2424.6	2174.7	2106.1
27.5°	1322.4	1359.7	1555.4	1305.5	1268.2
30°	822.6	804.0	896.3	769.2	716.7
32.5°	539.6	515.9	545.6	489.7	447.3
35°	360.9	368.5	345.6	343.1	289.7
37.5°	225.3	259.2	228.7	244.0	186.4
40°	145.7	188.1	161.8	178.8	137.2
42.5°	119.5	144.9	133.0	141.5	122.0
45°	94.9	117.8	117.8	117.8	95.7
47.5°	52.5	78.8	100.8	80.5	55.9
50°	29.7	39.8	77.9	41.5	31.3
52.5°	20.3	22.9	53.4	23.7	21.2
55°	15.2	16.1	28.8	16.9	16.1
57.5°	11.9	12.7	15.2	12.7	11.9
60°	9.3	9.3	11.0	10.2	9.3
62.5°	6.8	6.8	7.6	6.8	6.8
65°	5.1	5.1	5.1	5.1	5.1
67.5°	2.5	3.4	3.4	3.4	3.4
70°	2.5	1.7	1.7	1.7	2.5
72.5°	1.7	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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