

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: P753767

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBCSSQMW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753767
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: LD4D80BD010-EU4DR3070959024-4LBCSSQMW
Description: 4 INCH SQAURE SHALLOW CAST MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

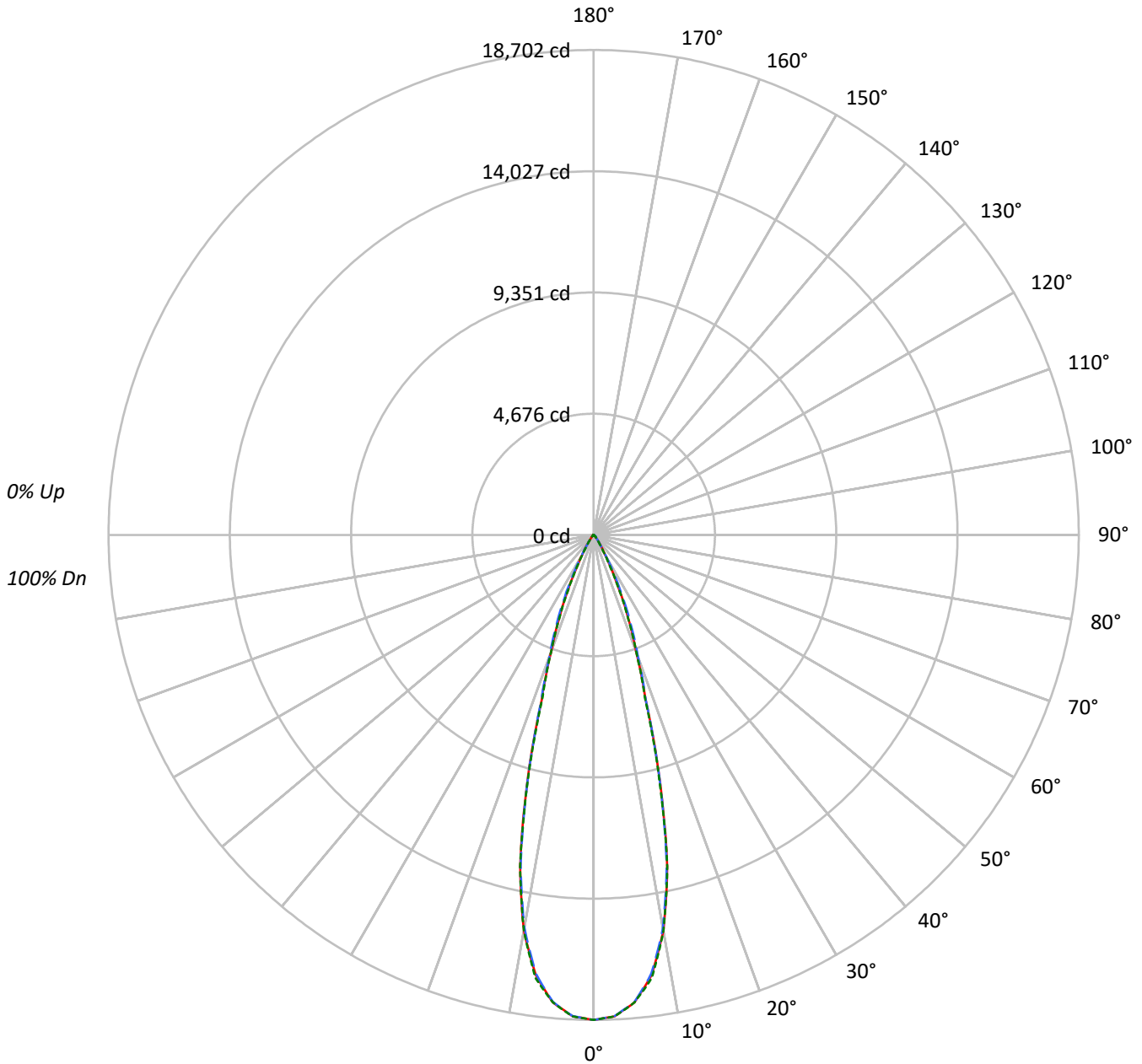
Lumens per Lamp: N/A
Luminaire Lumens: 5816.3 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
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



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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°	1431545	1431545	1431545
5°	1390451	1388830	1390520
10°	1204344	1195849	1204057
15°	785771	781555	777625
20°	390727	405389	390206
25°	196825	221951	192788
30°	78804	85866	68657
35°	36555	35003	29341
40°	15777	17526	14868
45°	11128	13813	11236
50°	3822	10062	4049
55°	2202	4164	2322
60°	1546	1822	1546
65°	996	996	996
70°	627	403	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1644.6	28.3
10°-20°	2648.6	45.5
20°-30°	1144.6	19.7
30°-40°	260.9	4.5
40°-50°	89.6	1.5
50°-60°	21.9	0.4
60°-70°	5.7	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°	5437.8	93.5
0°-40°	5698.6	98.0
0°-60°	5810.1	99.9
0°-90°	5816.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5816.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18702	18702	18702	18702	18702	
5°	18096	18079	18075	18113	18097	1646
15°	9916	9796	9863	9830	9813	2655
25°	2330	2419	2628	2357	2283	1116
35°	391	399	375	372	314	265
45°	103	128	128	128	104	73
55°	16	17	31	18	17	16
65°	6	6	6	6	6	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°	18702.4	18702.4	18702.4	18702.4	18702.4
2.5°	18578.5	18565.6	18573.0	18582.1	18585.8
5°	18096.4	18078.9	18075.3	18112.9	18097.3
7.5°	17124.0	17099.2	17061.6	17146.9	17226.8
10°	15495.1	15467.5	15385.8	15426.2	15491.4
12.5°	13090.2	13001.2	12999.3	13127.9	13110.4
15°	9915.9	9796.5	9862.7	9830.5	9813.1
17.5°	6668.2	6622.2	6710.4	6683.8	6569.0
20°	4796.8	4808.7	4976.8	4892.3	4790.4
22.5°	3500.3	3543.4	3742.7	3525.1	3445.2
25°	2330.5	2418.6	2628.0	2357.1	2282.7
27.5°	1433.4	1473.8	1685.9	1415.0	1374.6
30°	891.6	871.4	971.5	833.7	776.8
32.5°	584.9	559.2	591.3	530.7	484.8
35°	391.2	399.4	374.6	371.9	314.0
37.5°	244.2	281.0	247.9	264.4	202.0
40°	157.9	203.8	175.4	193.7	148.8
42.5°	129.5	157.0	144.2	153.3	132.2
45°	102.8	127.6	127.6	127.6	103.8
47.5°	56.9	85.4	109.3	87.2	60.6
50°	32.1	43.2	84.5	45.0	34.0
52.5°	22.0	24.8	57.8	25.7	23.0
55°	16.5	17.4	31.2	18.4	17.4
57.5°	12.9	13.8	16.5	13.8	12.9
60°	10.1	10.1	11.9	11.0	10.1
62.5°	7.3	7.3	8.3	7.3	7.3
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.8	1.8	1.8	2.8
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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