

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: P753790

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753790
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-EU4DR3070959027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

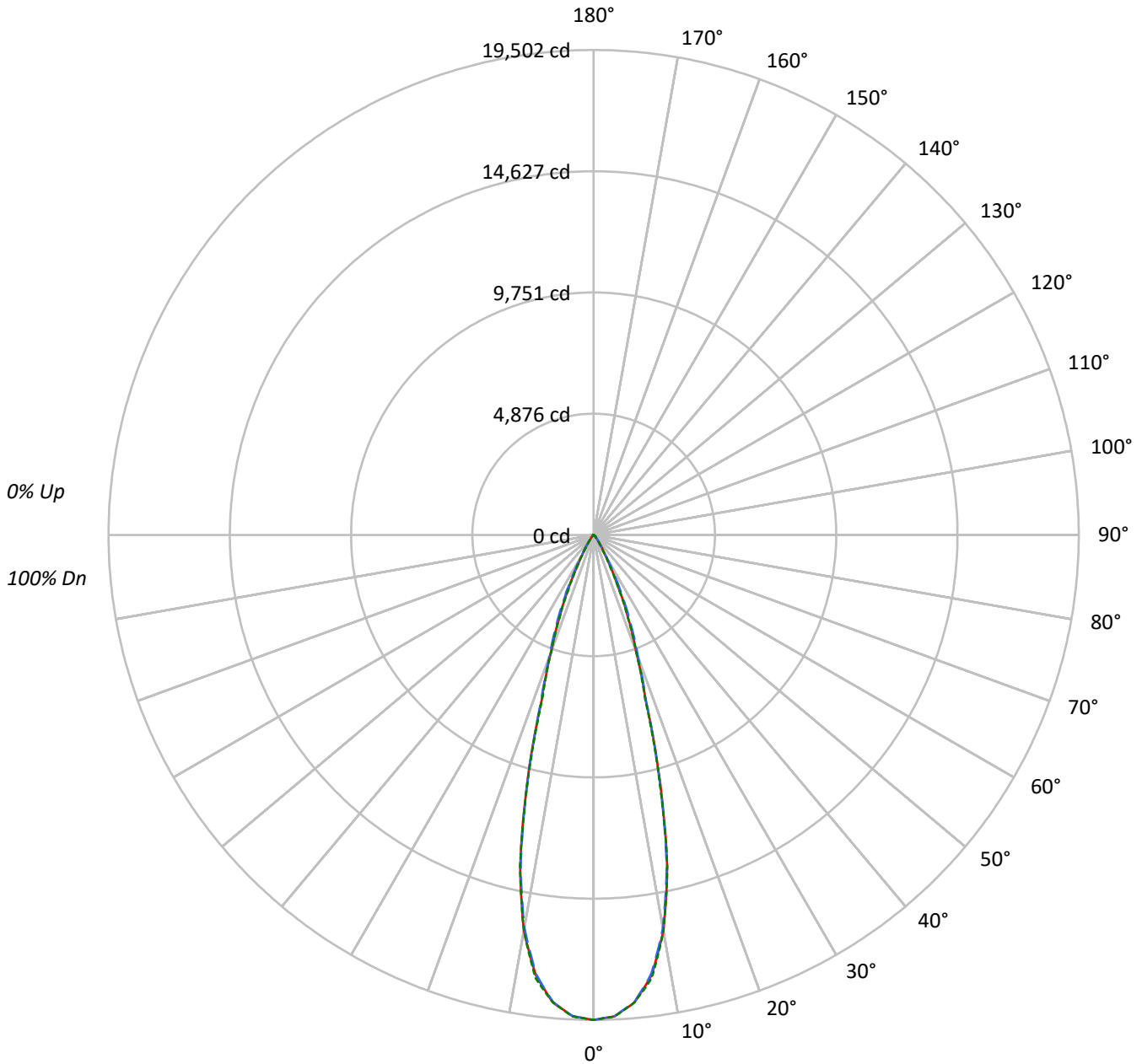
Lumens per Lamp: N/A
Luminaire Lumens: 6065.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (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°	1492742	1492742	1492742
5°	1449891	1448201	1449968
10°	1255829	1246968	1255526
15°	819363	814964	810868
20°	407434	422715	406888
25°	205237	231436	201031
30°	82171	89534	71592
35°	38115	36508	30602
40°	16457	18275	15498
45°	11604	14408	11713
50°	3989	10491	4215
55°	2295	4350	2429
60°	1607	1898	1607
65°	1032	1032	1032
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14408 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1714.9	28.3
10°-20°	2761.9	45.5
20°-30°	1193.5	19.7
30°-40°	272.0	4.5
40°-50°	93.4	1.5
50°-60°	22.8	0.4
60°-70°	5.9	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°	5670.2	93.5
0°-40°	5942.3	98.0
0°-60°	6058.5	99.9
0°-90°	6065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19502	19502	19502	19502	19502	
5°	18870	18852	18848	18887	18871	1716
15°	10340	10215	10284	10251	10233	2769
25°	2430	2522	2740	2458	2380	1163
35°	408	416	391	388	328	277
45°	107	133	133	133	108	76
55°	17	18	33	19	18	17
65°	6	6	6	6	6	6
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°	19501.9	19501.9	19501.9	19501.9	19501.9
2.5°	19372.7	19359.3	19366.9	19376.5	19380.3
5°	18870.0	18851.8	18848.0	18887.2	18871.0
7.5°	17856.0	17830.2	17790.9	17880.0	17963.3
10°	16157.5	16128.7	16043.5	16085.7	16153.6
12.5°	13649.8	13557.0	13555.0	13689.1	13670.9
15°	10339.8	10215.3	10284.3	10250.8	10232.6
17.5°	6953.2	6905.3	6997.3	6969.5	6849.8
20°	5001.9	5014.3	5189.5	5101.5	4995.2
22.5°	3649.9	3694.9	3902.7	3675.8	3592.5
25°	2430.1	2522.0	2740.3	2457.8	2380.3
27.5°	1494.6	1536.8	1757.9	1475.5	1433.3
30°	929.7	908.6	1013.0	869.4	810.0
32.5°	609.9	583.1	616.6	553.4	505.5
35°	407.9	416.5	390.7	387.8	327.5
37.5°	254.7	293.0	258.5	275.8	210.6
40°	164.7	212.6	182.9	202.0	155.1
42.5°	135.0	163.7	150.3	159.9	137.9
45°	107.2	133.1	133.1	133.1	108.2
47.5°	59.4	89.0	113.9	91.0	63.2
50°	33.5	45.0	88.1	46.9	35.4
52.5°	23.0	25.9	60.3	26.8	23.9
55°	17.2	18.2	32.6	19.1	18.2
57.5°	13.4	14.4	17.2	14.4	13.4
60°	10.5	10.5	12.4	11.5	10.5
62.5°	7.7	7.7	8.6	7.7	7.7
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.9	3.8	3.8	3.8	3.8
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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