

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: P753789

Luminaire Tested: LD4D80BD010-EU4DR3070959027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753789
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-EU4DR3070959027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

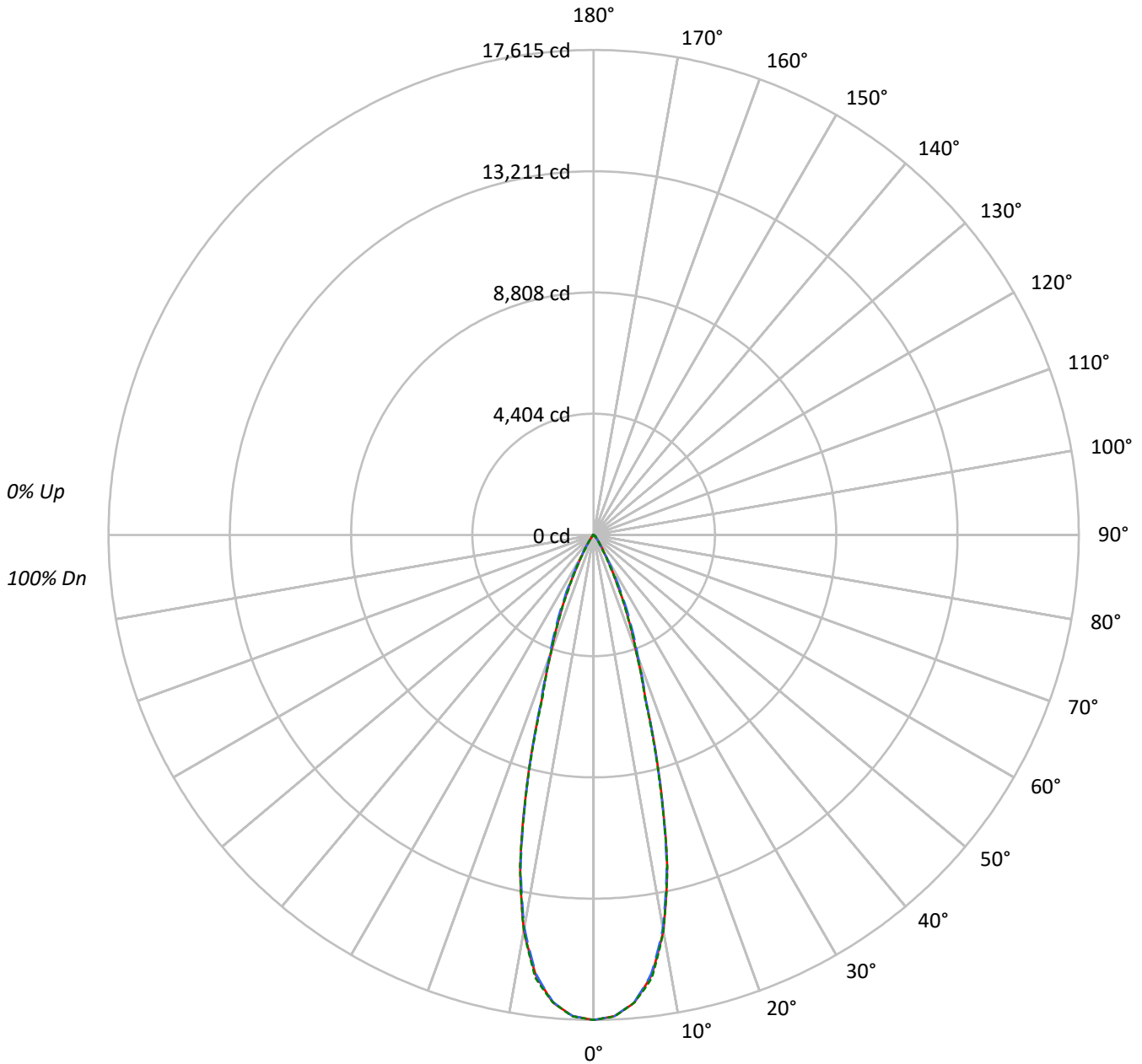
Lumens per Lamp: N/A
Luminaire Lumens: 5478.1 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1348297	1348297	1348297
5°	1309589	1308060	1309650
10°	1134299	1126301	1134035
15°	740071	736101	732401
20°	368001	381816	367512
25°	185373	209038	181581
30°	74217	80872	64662
35°	34424	32966	27640
40°	14858	16507	13999
45°	10489	13011	10576
50°	3608	9479	3811
55°	2082	3923	2189
60°	1454	1715	1454
65°	942	942	942
70°	582	380	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13011 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1549.0	28.3
10°-20°	2494.6	45.5
20°-30°	1078.0	19.7
30°-40°	245.7	4.5
40°-50°	84.4	1.5
50°-60°	20.6	0.4
60°-70°	5.3	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°	5121.5	93.5
0°-40°	5367.2	98.0
0°-60°	5472.2	99.9
0°-90°	5478.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5478.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17615	17615	17615	17615	17615	
5°	17044	17028	17024	17060	17045	1550
15°	9339	9227	9289	9259	9242	2501
25°	2195	2278	2475	2220	2150	1051
35°	368	376	353	350	296	250
45°	97	120	120	120	98	69
55°	16	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°	17614.8	17614.8	17614.8	17614.8	17614.8
2.5°	17498.0	17485.9	17492.8	17501.5	17504.9
5°	17044.0	17027.5	17024.1	17059.5	17044.8
7.5°	16128.1	16104.8	16069.3	16149.7	16225.0
10°	14593.9	14568.0	14491.0	14529.1	14590.5
12.5°	12329.0	12245.1	12243.3	12364.4	12348.0
15°	9339.2	9226.8	9289.1	9258.8	9242.4
17.5°	6280.4	6237.1	6320.1	6295.1	6187.0
20°	4517.8	4529.1	4687.4	4607.8	4511.8
22.5°	3296.7	3337.4	3525.0	3320.1	3244.8
25°	2194.9	2278.0	2475.1	2220.0	2150.0
27.5°	1350.0	1388.0	1587.8	1332.7	1294.6
30°	839.7	820.7	915.0	785.3	731.6
32.5°	550.9	526.7	556.9	499.9	456.6
35°	368.4	376.2	352.8	350.3	295.8
37.5°	230.0	264.6	233.5	249.1	190.3
40°	148.7	192.0	165.2	182.5	140.1
42.5°	121.9	147.9	135.8	144.4	124.5
45°	96.9	120.2	120.2	120.2	97.7
47.5°	53.6	80.4	102.9	82.2	57.1
50°	30.3	40.6	79.6	42.4	32.0
52.5°	20.8	23.4	54.5	24.2	21.6
55°	15.6	16.4	29.4	17.3	16.4
57.5°	12.1	13.0	15.6	13.0	12.1
60°	9.5	9.5	11.2	10.4	9.5
62.5°	6.9	6.9	7.8	6.9	6.9
65°	5.2	5.2	5.2	5.2	5.2
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.7	1.7	1.7	2.6
72.5°	1.7	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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