

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: P753841

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753841
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-EU4DR3070959050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

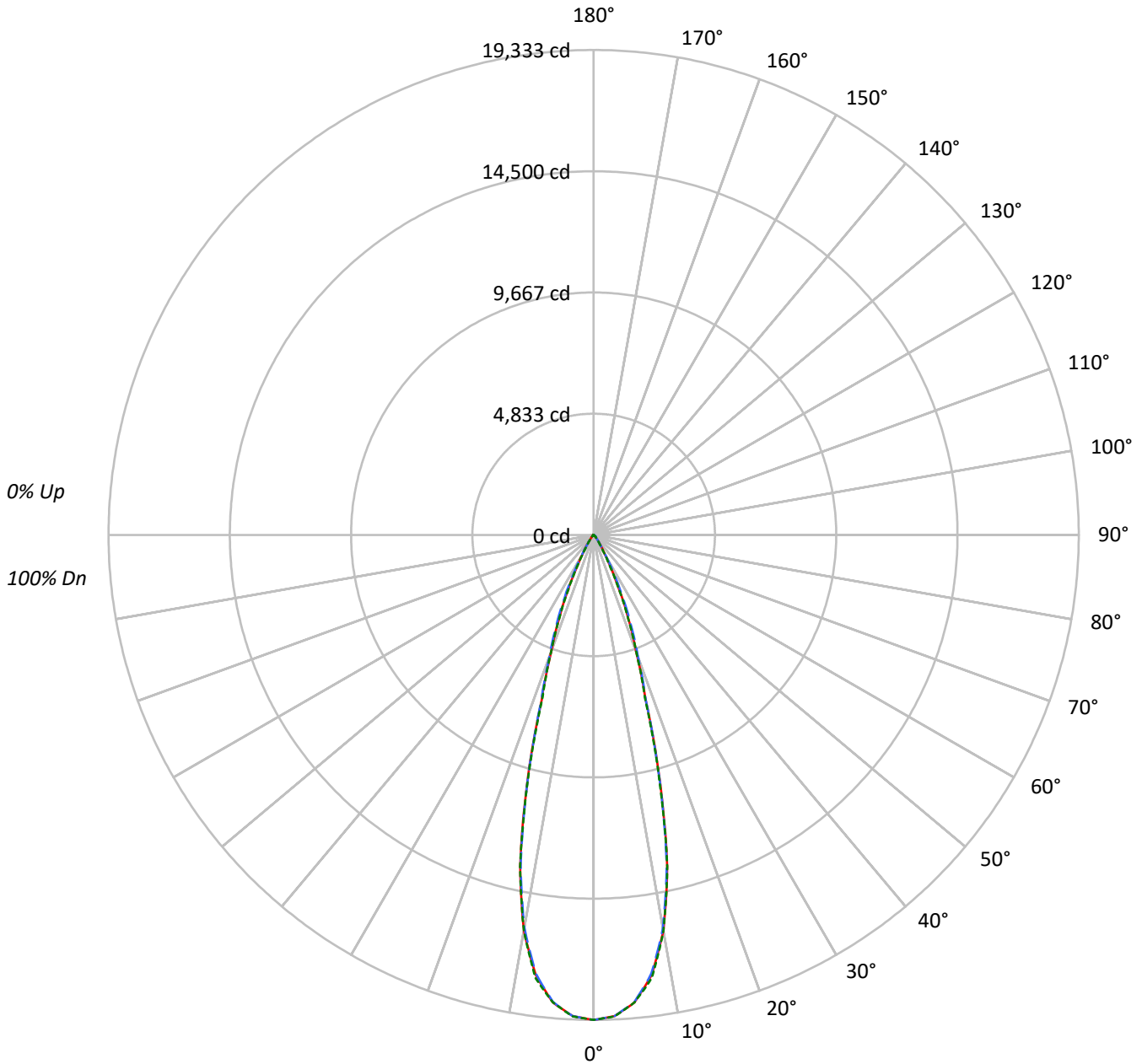
Lumens per Lamp: N/A
Luminaire Lumens: 6012.3 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	1479791	1479791	1479791
5°	1437305	1435630	1437382
10°	1244924	1236149	1244629
15°	812254	807888	803831
20°	403898	419049	403353
25°	203455	229426	199283
30°	81455	88756	70973
35°	37779	36190	30331
40°	16317	18116	15368
45°	11507	14278	11615
50°	3953	10396	4180
55°	2282	4310	2402
60°	1592	1883	1592
65°	1032	1032	1032
70°	627	425	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: 14278 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1700.0	28.3
10°-20°	2737.9	45.5
20°-30°	1183.1	19.7
30°-40°	269.7	4.5
40°-50°	92.6	1.5
50°-60°	22.6	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°	5621.0	93.5
0°-40°	5890.7	98.0
0°-60°	6005.9	99.9
0°-90°	6012.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6012.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19333	19333	19333	19333	19333	
5°	18706	18688	18684	18723	18707	1701
15°	10250	10127	10195	10162	10144	2745
25°	2409	2500	2716	2436	2360	1153
35°	404	413	387	384	325	274
45°	106	132	132	132	107	75
55°	17	18	32	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°	19332.7	19332.7	19332.7	19332.7	19332.7
2.5°	19204.5	19191.3	19198.9	19208.3	19212.1
5°	18706.2	18688.2	18684.4	18723.3	18707.2
7.5°	17701.1	17675.4	17636.5	17724.8	17807.4
10°	16017.2	15988.8	15904.3	15946.0	16013.4
12.5°	13531.4	13439.3	13437.4	13570.3	13552.2
15°	10250.1	10126.7	10195.0	10161.8	10143.8
17.5°	6892.9	6845.4	6936.5	6909.0	6790.4
20°	4958.5	4970.8	5144.5	5057.2	4951.8
22.5°	3618.2	3662.8	3868.8	3643.9	3561.3
25°	2409.0	2500.1	2716.5	2436.5	2359.6
27.5°	1481.7	1523.4	1742.7	1462.7	1420.9
30°	921.6	900.8	1004.2	861.8	803.0
32.5°	604.6	578.0	611.3	548.6	501.2
35°	404.3	412.9	387.3	384.4	324.6
37.5°	252.5	290.4	256.3	273.4	208.8
40°	163.3	210.7	181.3	200.3	153.8
42.5°	133.8	162.3	149.0	158.5	136.7
45°	106.3	131.9	131.9	131.9	107.3
47.5°	58.8	88.3	113.0	90.2	62.6
50°	33.2	44.6	87.3	46.5	35.1
52.5°	22.8	25.6	59.8	26.6	23.7
55°	17.1	18.0	32.3	19.0	18.0
57.5°	13.3	14.2	17.1	14.2	13.3
60°	10.4	10.4	12.3	11.4	10.4
62.5°	7.6	7.6	8.5	7.6	7.6
65°	5.7	5.7	5.7	5.7	5.7
67.5°	2.8	3.8	3.8	3.8	3.8
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	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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