

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: P753802

Luminaire Tested: LD4D80BD010-EU4DR3070959030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753802
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-EU4DR3070959030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5643.7 lumens
Efficiency: N/A
Efficacy: 71.5 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')

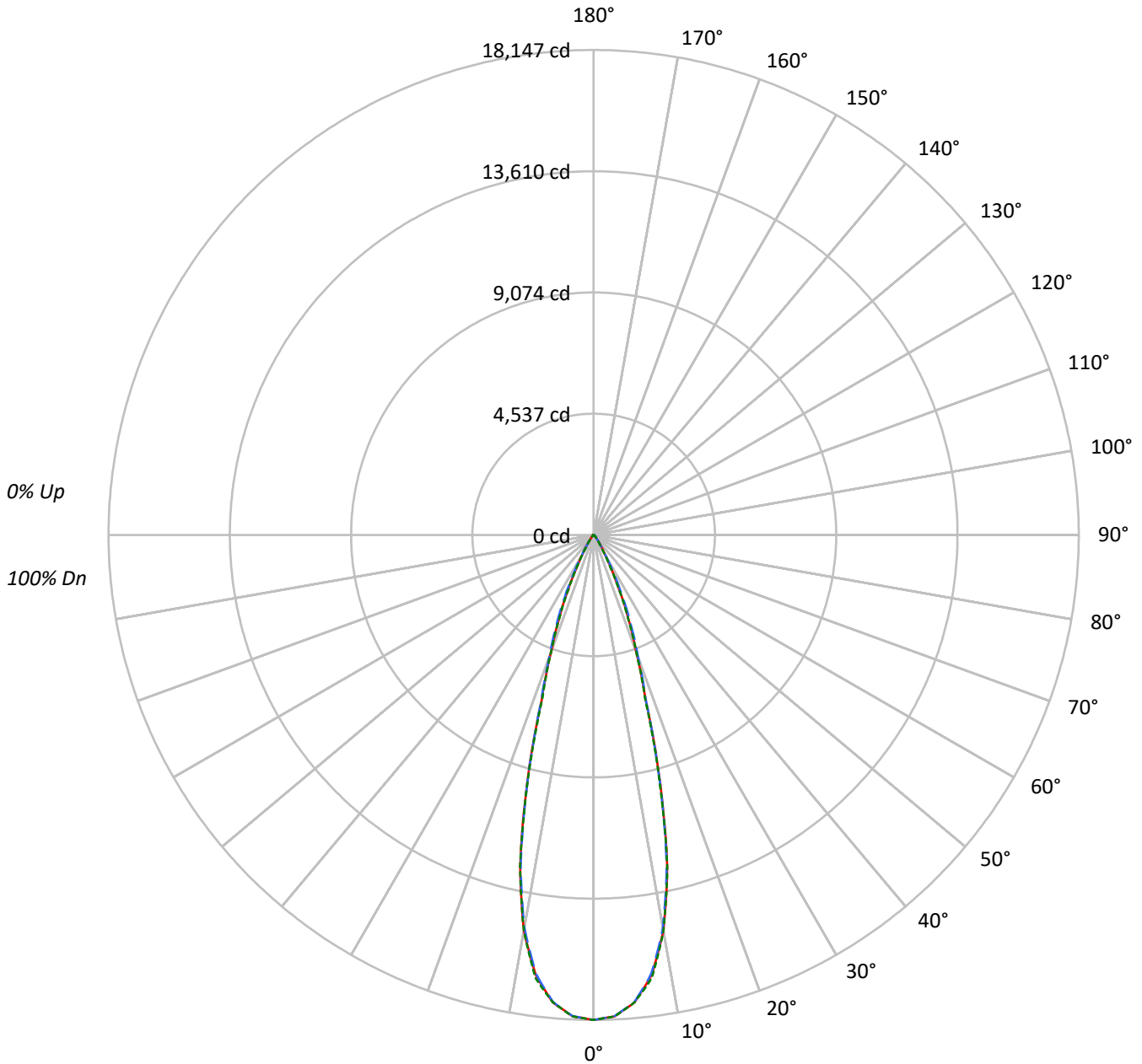
CIE Type: Direct

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°	1389041	1389041	1389041
5°	1349159	1347592	1349229
10°	1168583	1160337	1168304
15°	762442	758345	754533
20°	379128	393350	378615
25°	190981	215355	187062
30°	76462	83311	66624
35°	35461	33966	28472
40°	15308	17006	14419
45°	10803	13401	10901
50°	3715	9765	3930
55°	2135	4044	2255
60°	1500	1776	1500
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13401 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1595.8	28.3
10°-20°	2570.0	45.5
20°-30°	1110.6	19.7
30°-40°	253.1	4.5
40°-50°	86.9	1.5
50°-60°	21.2	0.4
60°-70°	5.5	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°	5276.3	93.5
0°-40°	5529.4	98.0
0°-60°	5637.6	99.9
0°-90°	5643.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5643.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18147	18147	18147	18147	18147	
5°	17559	17542	17539	17575	17560	1597
15°	9622	9506	9570	9539	9522	2576
25°	2261	2347	2550	2287	2215	1082
35°	380	388	364	361	305	257
45°	100	124	124	124	101	71
55°	16	17	30	18	17	16
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°	18147.1	18147.1	18147.1	18147.1	18147.1
2.5°	18026.8	18014.3	18021.5	18030.4	18033.9
5°	17559.0	17542.1	17538.6	17575.1	17559.9
7.5°	16615.5	16591.5	16554.9	16637.8	16715.3
10°	15035.0	15008.2	14928.9	14968.1	15031.4
12.5°	12701.5	12615.1	12613.3	12738.1	12721.1
15°	9621.5	9505.7	9569.8	9538.6	9521.7
17.5°	6470.2	6425.6	6511.1	6485.3	6373.9
20°	4654.4	4666.0	4829.0	4747.0	4648.1
22.5°	3396.3	3438.2	3631.6	3420.4	3342.9
25°	2261.3	2346.8	2549.9	2287.1	2214.9
27.5°	1390.8	1430.0	1635.8	1373.0	1333.8
30°	865.1	845.5	942.6	809.0	753.8
32.5°	567.5	542.6	573.8	515.0	470.4
35°	379.5	387.6	363.5	360.8	304.7
37.5°	237.0	272.6	240.6	256.6	196.0
40°	153.2	197.8	170.2	188.0	144.3
42.5°	125.6	152.4	139.9	148.8	128.3
45°	99.8	123.8	123.8	123.8	100.7
47.5°	55.2	82.9	106.0	84.6	58.8
50°	31.2	41.9	82.0	43.7	33.0
52.5°	21.4	24.1	56.1	24.9	22.3
55°	16.0	16.9	30.3	17.8	16.9
57.5°	12.5	13.4	16.0	13.4	12.5
60°	9.8	9.8	11.6	10.7	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
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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