

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: P753828

Luminaire Tested: LD4D80BD010-EU4DR3070959040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753828
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-EU4DR3070959040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5969.7 lumens
Efficiency: N/A
Efficacy: 75.7 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

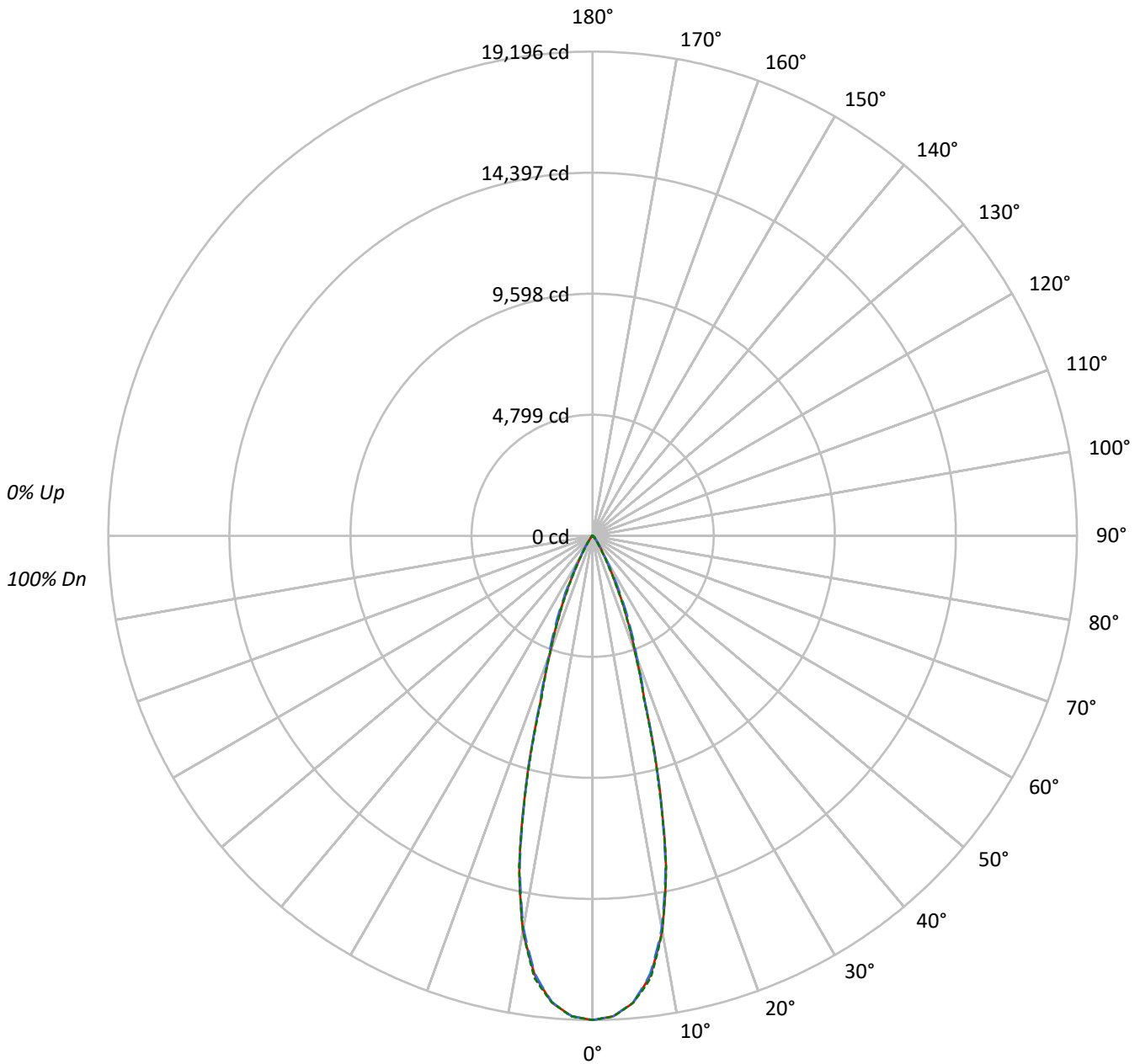
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	1469296	1469296	1469296
5°	1427117	1425450	1427186
10°	1236095	1227382	1235807
15°	806493	802159	798125
20°	401031	416076	400494
25°	202011	227804	197873
30°	80881	88128	70469
35°	37517	35929	30116
40°	16197	17986	15258
45°	11431	14181	11528
50°	3930	10324	4156
55°	2269	4270	2389
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: 14181 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1688.0	28.3
10°-20°	2718.5	45.5
20°-30°	1174.7	19.7
30°-40°	267.7	4.5
40°-50°	91.9	1.5
50°-60°	22.5	0.4
60°-70°	5.8	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°	5581.2	93.5
0°-40°	5848.9	98.0
0°-60°	5963.3	99.9
0°-90°	5969.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5969.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19196	19196	19196	19196	19196	
5°	18574	18556	18552	18590	18574	1689
15°	10177	10055	10123	10090	10072	2725
25°	2392	2482	2697	2419	2343	1145
35°	402	410	384	382	322	272
45°	106	131	131	131	106	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°	19195.6	19195.6	19195.6	19195.6	19195.6
2.5°	19068.3	19055.2	19062.7	19072.1	19075.9
5°	18573.6	18555.7	18551.9	18590.5	18574.5
7.5°	17575.5	17550.1	17511.4	17599.1	17681.1
10°	15903.6	15875.4	15791.5	15833.0	15899.9
12.5°	13435.4	13344.0	13342.1	13474.0	13456.1
15°	10177.4	10054.9	10122.7	10089.7	10071.8
17.5°	6844.0	6796.9	6887.3	6860.0	6742.2
20°	4923.3	4935.5	5108.0	5021.3	4916.7
22.5°	3592.6	3636.9	3841.4	3618.0	3536.0
25°	2391.9	2482.4	2697.3	2419.2	2342.9
27.5°	1471.1	1512.6	1730.3	1452.3	1410.8
30°	915.1	894.4	997.1	855.7	797.3
32.5°	600.3	573.9	606.9	544.7	497.6
35°	401.5	410.0	384.5	381.7	322.3
37.5°	250.7	288.4	254.5	271.4	207.3
40°	162.1	209.2	180.0	198.9	152.7
42.5°	132.9	161.2	148.0	157.4	135.7
45°	105.6	131.0	131.0	131.0	106.5
47.5°	58.4	87.6	112.2	89.5	62.2
50°	33.0	44.3	86.7	46.2	34.9
52.5°	22.6	25.4	59.4	26.4	23.6
55°	17.0	17.9	32.0	18.8	17.9
57.5°	13.2	14.1	17.0	14.1	13.2
60°	10.4	10.4	12.3	11.3	10.4
62.5°	7.5	7.5	8.5	7.5	7.5
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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