

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: P753776

Luminaire Tested: LD4D80BD010-EU4DR3070959024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753776
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-EU4DR3070959024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

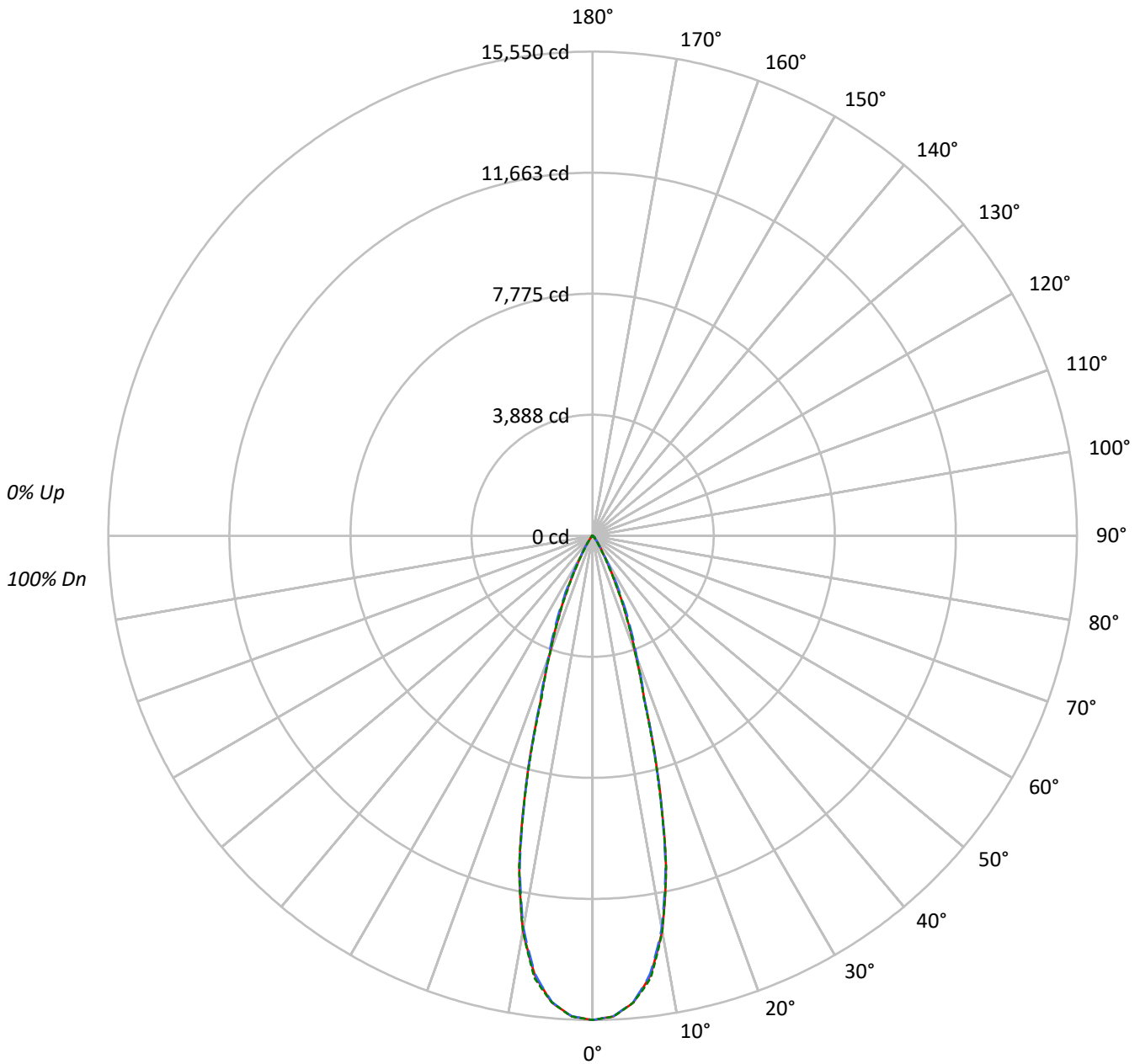
Lumens per Lamp: N/A
Luminaire Lumens: 4836.0 lumens
Efficiency: N/A
Efficacy: 61.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')

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°	1190250	1190250	1190250
5°	1156087	1154734	1156140
10°	1001344	994279	1001103
15°	653323	649821	646548
20°	324870	337056	324430
25°	163643	184537	160290
30°	65520	71388	57088
35°	30387	29107	24398
40°	13120	14568	12360
45°	9255	11485	9342
50°	3179	8359	3358
55°	1828	3470	1935
60°	1286	1516	1286
65°	833	833	833
70°	515	336	515
75°	0	237	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 11485 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1367.4	28.3
10°-20°	2202.2	45.5
20°-30°	951.6	19.7
30°-40°	216.9	4.5
40°-50°	74.5	1.5
50°-60°	18.2	0.4
60°-70°	4.7	0.1
70°-80°	0.5	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°	4521.2	93.5
0°-40°	4738.1	98.0
0°-60°	4830.8	99.9
0°-90°	4836.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4836.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15550	15550	15550	15550	15550	
5°	15046	15032	15029	15060	15047	1369
15°	8244	8145	8200	8174	8159	2208
25°	1938	2011	2185	1960	1898	927
35°	325	332	312	309	261	221
45°	86	106	106	106	86	61
55°	14	14	26	15	14	13
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°	15550.0	15550.0	15550.0	15550.0	15550.0
2.5°	15447.0	15436.3	15442.4	15450.0	15453.1
5°	15046.2	15031.6	15028.6	15059.9	15046.9
7.5°	14237.7	14217.0	14185.7	14256.7	14323.2
10°	12883.3	12860.4	12792.4	12826.0	12880.2
12.5°	10883.8	10809.7	10808.2	10915.1	10900.6
15°	8244.5	8145.3	8200.3	8173.5	8159.0
17.5°	5544.2	5506.0	5579.3	5557.2	5461.7
20°	3988.3	3998.2	4137.9	4067.7	3982.9
22.5°	2910.3	2946.2	3111.8	2930.9	2864.5
25°	1937.6	2010.9	2185.0	1959.8	1897.9
27.5°	1191.8	1225.3	1401.7	1176.5	1142.9
30°	741.3	724.5	807.7	693.2	645.9
32.5°	486.3	464.9	491.7	441.3	403.1
35°	325.2	332.1	311.5	309.2	261.1
37.5°	203.1	233.6	206.1	219.9	168.0
40°	131.3	169.5	145.8	161.1	123.7
42.5°	107.6	130.6	119.9	127.5	109.9
45°	85.5	106.1	106.1	106.1	86.3
47.5°	47.3	71.0	90.9	72.5	50.4
50°	26.7	35.9	70.2	37.4	28.2
52.5°	18.3	20.6	48.1	21.4	19.1
55°	13.7	14.5	26.0	15.3	14.5
57.5°	10.7	11.5	13.7	11.5	10.7
60°	8.4	8.4	9.9	9.2	8.4
62.5°	6.1	6.1	6.9	6.1	6.1
65°	4.6	4.6	4.6	4.6	4.6
67.5°	2.3	3.1	3.1	3.1	3.1
70°	2.3	1.5	1.5	1.5	2.3
72.5°	1.5	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.8	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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