

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: P756181

Luminaire Tested: LD4D95BD010-EU4DR3070959050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756181
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: LD4D95BD010-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

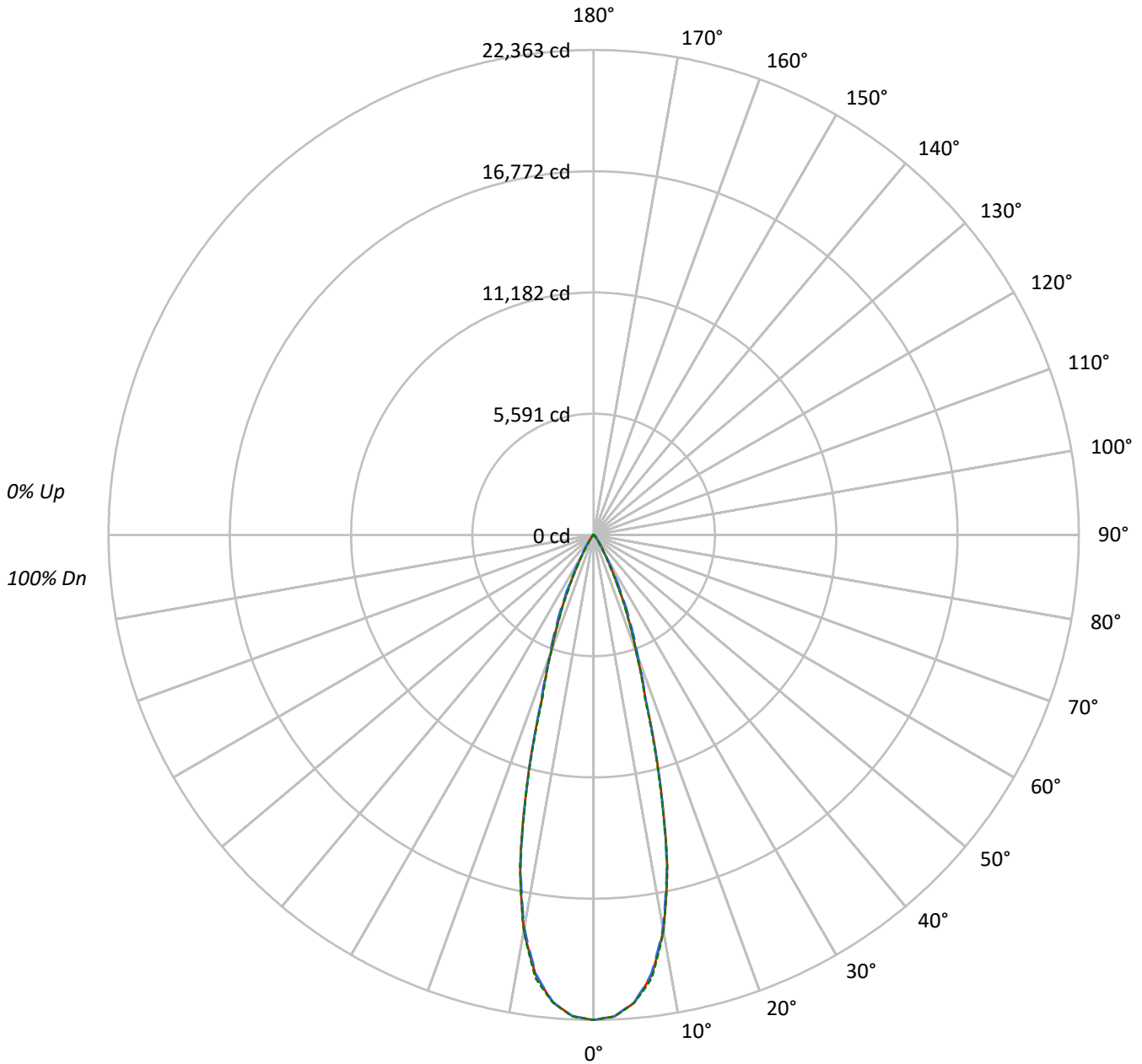
Lumens per Lamp: N/A
Luminaire Lumens: 6954.9 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 99.2
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°	1711763	1711763	1711763
5°	1662626	1660682	1662711
10°	1440082	1429931	1439740
15°	939583	934535	929836
20°	467214	484743	466587
25°	235346	265395	230523
30°	94227	102668	82101
35°	43703	41862	35088
40°	18865	20953	17776
45°	13315	16519	13434
50°	4573	12027	4835
55°	2642	4978	2789
60°	1852	2189	1852
65°	1195	1195	1195
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 16519 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1966.5	28.3
10°-20°	3167.1	45.5
20°-30°	1368.6	19.7
30°-40°	311.9	4.5
40°-50°	107.1	1.5
50°-60°	26.2	0.4
60°-70°	6.8	0.1
70°-80°	0.7	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°	6502.2	93.5
0°-40°	6814.1	98.0
0°-60°	6947.4	99.9
0°-90°	6954.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6954.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22363	22363	22363	22363	22363	
5°	21639	21618	21613	21658	21640	1968
15°	11857	11714	11793	11755	11734	3175
25°	2787	2892	3142	2818	2730	1334
35°	468	478	448	445	376	317
45°	123	153	153	153	124	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	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°	22363.3	22363.3	22363.3	22363.3	22363.3
2.5°	22215.1	22199.7	22208.5	22219.5	22223.9
5°	21638.7	21617.8	21613.4	21658.4	21639.8
7.5°	20475.9	20446.3	20401.3	20503.4	20598.9
10°	18528.1	18495.2	18397.5	18445.8	18523.7
12.5°	15652.6	15546.1	15543.9	15697.6	15676.7
15°	11856.9	11714.2	11793.2	11754.8	11733.9
17.5°	7973.4	7918.5	8023.9	7992.1	7854.8
20°	5735.8	5750.0	5951.0	5849.9	5728.1
22.5°	4185.4	4237.0	4475.3	4215.1	4119.6
25°	2786.6	2892.0	3142.4	2818.5	2729.5
27.5°	1713.9	1762.2	2015.9	1692.0	1643.7
30°	1066.1	1042.0	1161.6	997.0	928.9
32.5°	699.4	668.7	707.1	634.6	579.7
35°	467.7	477.6	448.0	444.7	375.5
37.5°	292.1	336.0	296.5	316.2	241.6
40°	188.8	243.7	209.7	231.7	177.9
42.5°	154.8	187.8	172.4	183.4	158.1
45°	123.0	152.6	152.6	152.6	124.1
47.5°	68.1	102.1	130.7	104.3	72.5
50°	38.4	51.6	101.0	53.8	40.6
52.5°	26.4	29.6	69.2	30.7	27.4
55°	19.8	20.9	37.3	22.0	20.9
57.5°	15.4	16.5	19.8	16.5	15.4
60°	12.1	12.1	14.3	13.2	12.1
62.5°	8.8	8.8	9.9	8.8	8.8
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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