

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: P756168

Luminaire Tested: LD4D95BD010-EU4DR3070959040-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756168
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-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

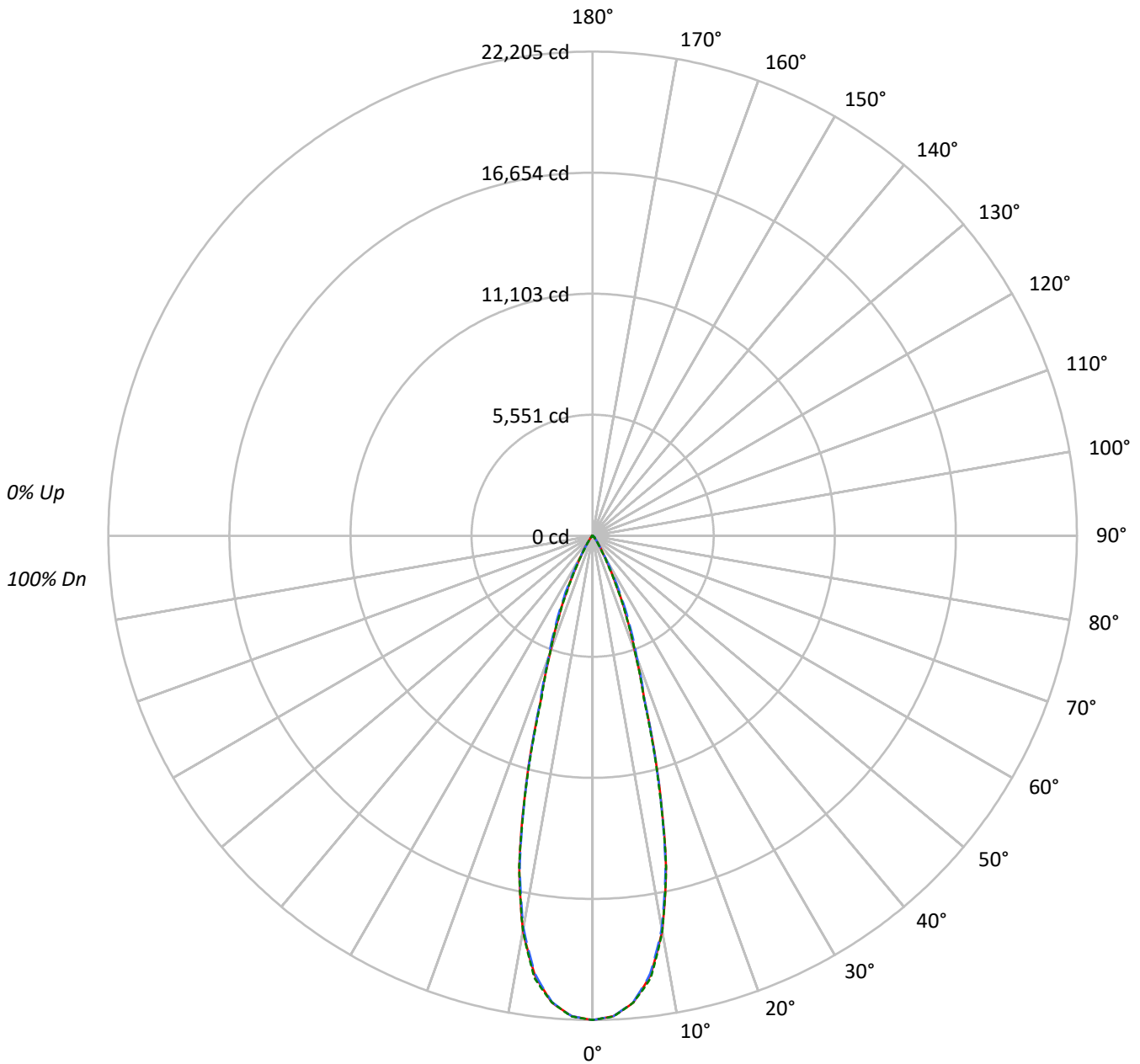
Lumens per Lamp: N/A
Luminaire Lumens: 6905.6 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

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°	1699623	1699623	1699623
5°	1650832	1648904	1650917
10°	1429869	1419788	1429535
15°	932919	927910	923243
20°	463899	481306	463272
25°	233682	263512	228893
30°	93564	101943	81517
35°	43395	41563	34835
40°	18735	20803	17646
45°	13217	16400	13336
50°	4549	11944	4799
55°	2616	4951	2762
60°	1837	2174	1837
65°	1177	1177	1177
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: 16400 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1952.6	28.3
10°-20°	3144.6	45.5
20°-30°	1358.9	19.7
30°-40°	309.7	4.5
40°-50°	106.3	1.5
50°-60°	26.0	0.4
60°-70°	6.7	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°	6456.1	93.5
0°-40°	6765.8	98.0
0°-60°	6898.1	99.9
0°-90°	6905.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6905.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22205	22205	22205	22205	22205	
5°	21485	21464	21460	21505	21486	1954
15°	11773	11631	11710	11671	11651	3152
25°	2767	2872	3120	2798	2710	1324
35°	464	474	445	442	373	315
45°	122	152	152	152	123	87
55°	20	21	37	22	21	19
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°	22204.7	22204.7	22204.7	22204.7	22204.7
2.5°	22057.5	22042.3	22051.0	22061.9	22066.3
5°	21485.2	21464.5	21460.1	21504.8	21486.3
7.5°	20330.7	20301.3	20256.6	20357.9	20452.8
10°	18396.7	18364.0	18267.0	18315.0	18392.4
12.5°	15541.6	15435.8	15433.6	15586.2	15565.5
15°	11772.8	11631.1	11709.6	11671.4	11650.7
17.5°	7916.9	7862.4	7967.0	7935.4	7799.1
20°	5695.1	5709.3	5908.8	5808.5	5687.4
22.5°	4155.8	4207.0	4443.6	4185.2	4090.3
25°	2766.9	2871.5	3120.1	2798.5	2710.2
27.5°	1701.8	1749.7	2001.6	1680.0	1632.0
30°	1058.6	1034.6	1153.4	989.9	922.3
32.5°	694.4	663.9	702.1	630.1	575.6
35°	464.4	474.2	444.8	441.5	372.8
37.5°	290.0	333.6	294.3	314.0	239.8
40°	187.5	242.0	208.2	230.0	176.6
42.5°	153.7	186.4	171.2	182.1	157.0
45°	122.1	151.5	151.5	151.5	123.2
47.5°	67.6	101.4	129.7	103.6	72.0
50°	38.2	51.2	100.3	53.4	40.3
52.5°	26.2	29.4	68.7	30.5	27.3
55°	19.6	20.7	37.1	21.8	20.7
57.5°	15.3	16.4	19.6	16.4	15.3
60°	12.0	12.0	14.2	13.1	12.0
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.5	6.5	6.5	6.5	6.5
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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