

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: P756144

Luminaire Tested: LD4D95BD010-EU4DR3070959035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756144
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-EU4DR3070959035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7933.3 lumens
Efficiency: N/A
Efficacy: 80.0 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

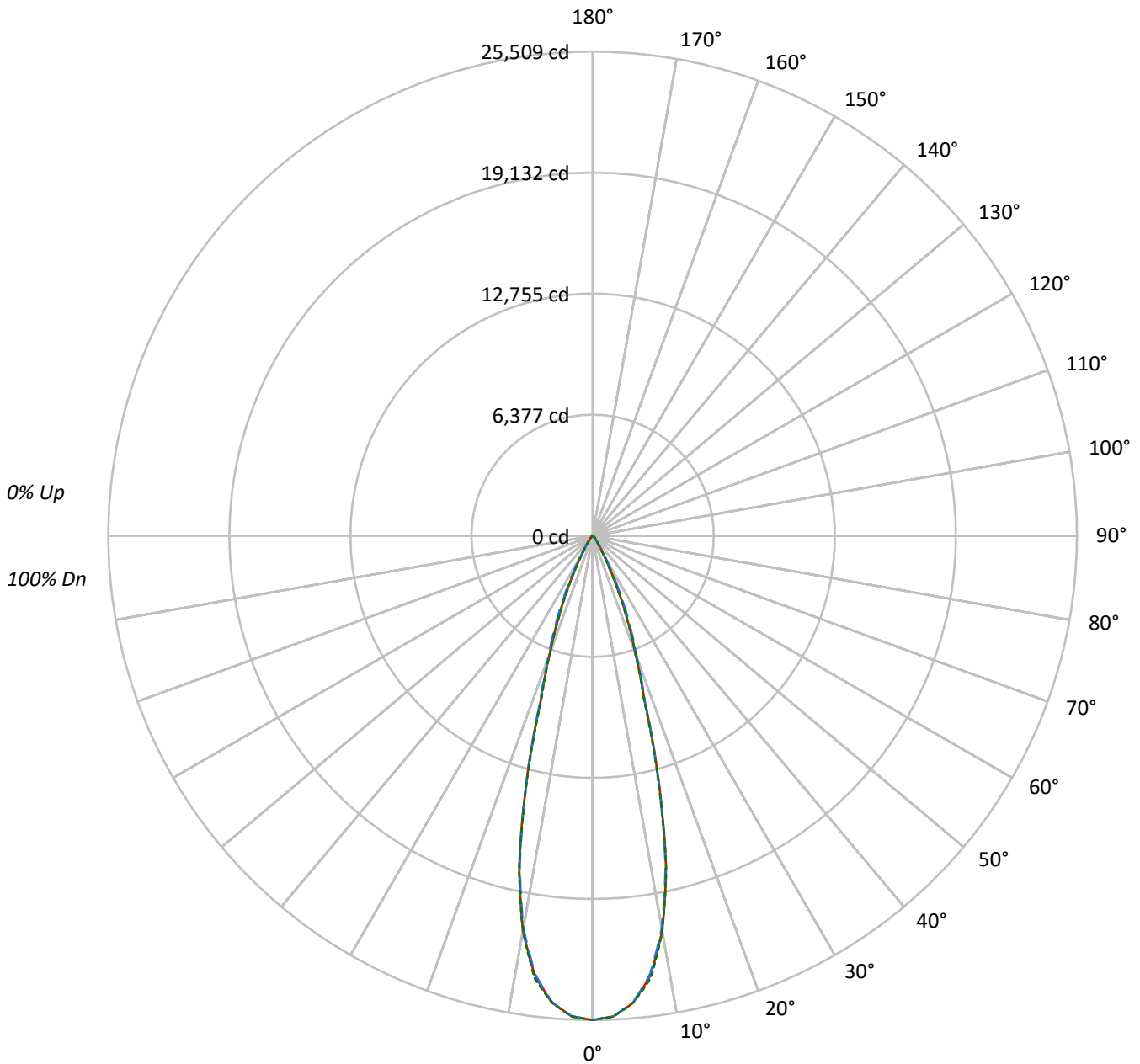
Input Watts (W): 99.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	1952576	1952576	1952576
5°	1896522	1894309	1896614
10°	1642670	1631089	1642281
15°	1071761	1066008	1060643
20°	532941	552930	532224
25°	268461	302725	262955
30°	107485	117119	93652
35°	49851	47749	40021
40°	21523	23901	20274
45°	15187	18846	15317
50°	5216	13718	5513
55°	3003	5685	3176
60°	2113	2495	2113
65°	1358	1358	1358
70°	850	559	850
75°	0	384	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18846 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2243.2	28.3
10°-20°	3612.6	45.5
20°-30°	1561.1	19.7
30°-40°	355.8	4.5
40°-50°	122.2	1.5
50°-60°	29.8	0.4
60°-70°	7.7	0.1
70°-80°	0.8	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°	7416.9	93.5
0°-40°	7772.7	98.0
0°-60°	7924.7	99.9
0°-90°	7933.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7933.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25509	25509	25509	25509	25509	
5°	24683	24659	24654	24705	24684	2245
15°	13525	13362	13452	13408	13385	3621
25°	3179	3299	3584	3215	3114	1522
35°	534	545	511	507	428	362
45°	140	174	174	174	142	100
55°	22	24	43	25	24	22
65°	8	8	8	8	8	7
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°	25509.4	25509.4	25509.4	25509.4	25509.4
2.5°	25340.3	25322.7	25332.8	25345.3	25350.3
5°	24682.8	24659.0	24654.0	24705.3	24684.0
7.5°	23356.4	23322.6	23271.3	23387.8	23496.7
10°	21134.6	21097.1	20985.6	21040.7	21129.6
12.5°	17854.5	17733.1	17730.6	17905.9	17882.1
15°	13524.9	13362.1	13452.3	13408.4	13384.6
17.5°	9095.1	9032.5	9152.7	9116.4	8959.8
20°	6542.7	6558.9	6788.1	6672.9	6533.9
22.5°	4774.2	4833.1	5104.9	4808.1	4699.1
25°	3178.7	3298.9	3584.4	3215.0	3113.5
27.5°	1955.0	2010.1	2299.4	1930.0	1874.9
30°	1216.1	1188.5	1325.1	1137.2	1059.6
32.5°	797.8	762.7	806.6	723.9	661.3
35°	533.5	544.8	511.0	507.2	428.3
37.5°	333.1	383.2	338.2	360.7	275.5
40°	215.4	278.0	239.2	264.3	202.9
42.5°	176.6	214.2	196.6	209.2	180.3
45°	140.3	174.1	174.1	174.1	141.5
47.5°	77.7	116.5	149.0	119.0	82.7
50°	43.8	58.9	115.2	61.4	46.3
52.5°	30.1	33.8	78.9	35.1	31.3
55°	22.5	23.8	42.6	25.0	23.8
57.5°	17.5	18.8	22.5	18.8	17.5
60°	13.8	13.8	16.3	15.0	13.8
62.5°	10.0	10.0	11.3	10.0	10.0
65°	7.5	7.5	7.5	7.5	7.5
67.5°	3.8	5.0	5.0	5.0	5.0
70°	3.8	2.5	2.5	2.5	3.8
72.5°	2.5	1.3	1.3	1.3	1.3
75°	0.0	0.0	1.3	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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