

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: P756169

Luminaire Tested: LD4D95BD010-EU4DR3070959040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756169
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-EU4DR3070959040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7645.4 lumens
Efficiency: N/A
Efficacy: 77.1 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

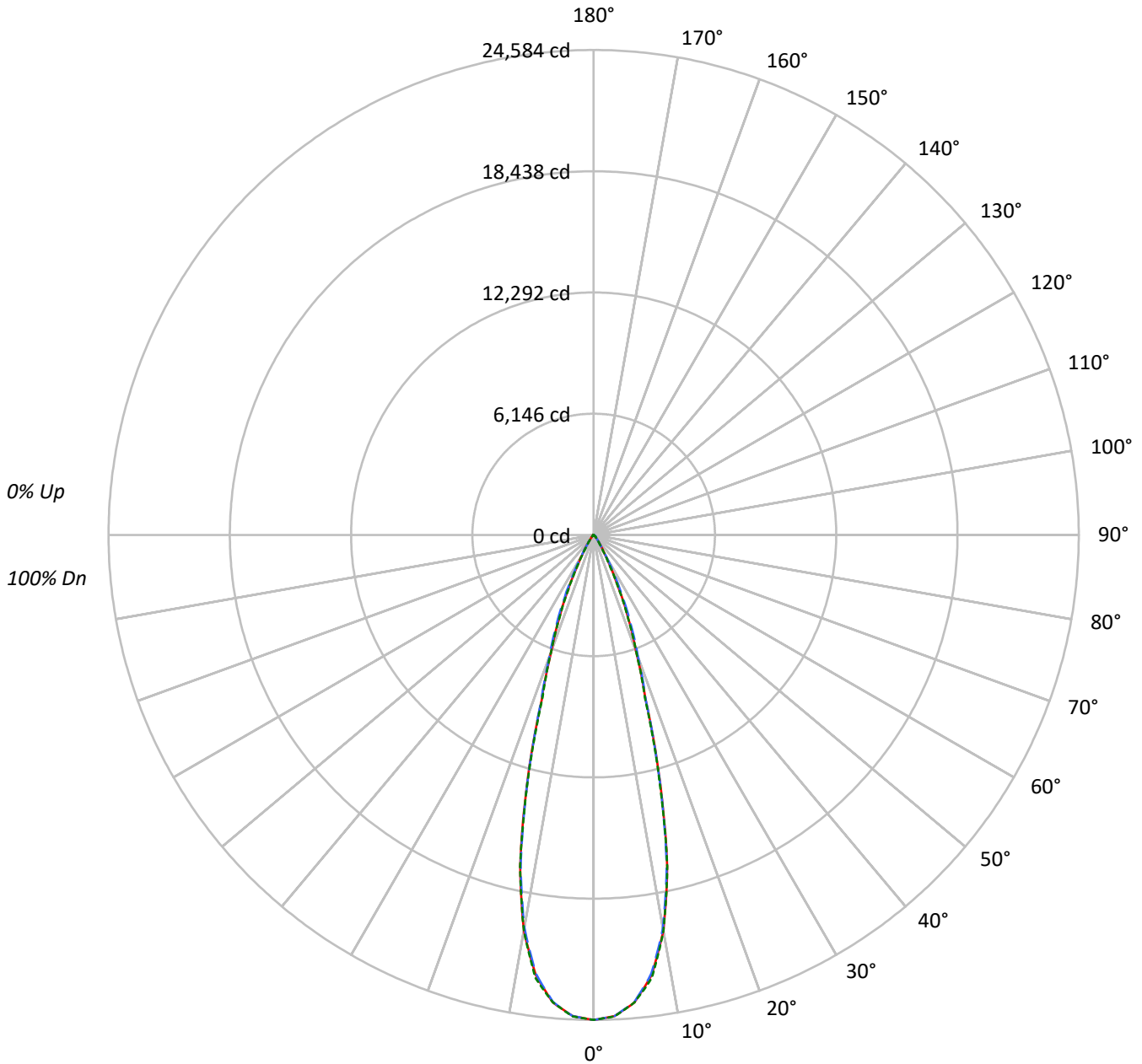
Input Watts (W): 99.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1881712	1881712	1881712
5°	1827693	1825564	1827785
10°	1583063	1571894	1582682
15°	1032868	1027321	1022155
20°	513595	532867	512911
25°	258715	291746	253411
30°	103587	112867	90250
35°	48048	46011	38573
40°	20743	23032	19534
45°	14635	18164	14765
50°	5025	13218	5323
55°	2896	5471	3056
60°	2036	2403	2036
65°	1304	1304	1304
70°	806	537	806
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18164 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2161.8	28.3
10°-20°	3481.5	45.5
20°-30°	1504.5	19.7
30°-40°	342.9	4.5
40°-50°	117.7	1.5
50°-60°	28.7	0.4
60°-70°	7.4	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°	7147.8	93.5
0°-40°	7490.6	98.0
0°-60°	7637.1	99.9
0°-90°	7645.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7645.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24584	24584	24584	24584	24584	
5°	23787	23764	23759	23809	23788	2164
15°	13034	12877	12964	12922	12899	3490
25°	3063	3179	3454	3098	3000	1466
35°	514	525	492	489	413	349
45°	135	168	168	168	136	96
55°	22	23	41	24	23	21
65°	7	7	7	7	7	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°	24583.6	24583.6	24583.6	24583.6	24583.6
2.5°	24420.7	24403.8	24413.5	24425.5	24430.3
5°	23787.0	23764.1	23759.3	23808.8	23788.2
7.5°	22508.8	22476.3	22426.8	22539.0	22644.0
10°	20367.7	20331.5	20224.0	20277.2	20362.8
12.5°	17206.6	17089.5	17087.1	17256.1	17233.2
15°	13034.1	12877.2	12964.1	12921.9	12898.9
17.5°	8765.0	8704.7	8820.6	8785.6	8634.7
20°	6305.2	6320.9	6541.8	6430.8	6296.8
22.5°	4601.0	4657.7	4919.6	4633.6	4528.6
25°	3063.3	3179.2	3454.4	3098.3	3000.5
27.5°	1884.1	1937.2	2216.0	1859.9	1806.8
30°	1172.0	1145.4	1277.0	1095.9	1021.1
32.5°	768.8	735.0	777.3	697.6	637.3
35°	514.2	525.0	492.4	488.8	412.8
37.5°	321.1	369.3	325.9	347.6	265.5
40°	207.6	267.9	230.5	254.7	195.5
42.5°	170.2	206.4	189.5	201.6	173.8
45°	135.2	167.8	167.8	167.8	136.4
47.5°	74.8	112.2	143.6	114.7	79.7
50°	42.2	56.7	111.0	59.1	44.7
52.5°	29.0	32.6	76.0	33.8	30.2
55°	21.7	22.9	41.0	24.1	22.9
57.5°	16.9	18.1	21.7	18.1	16.9
60°	13.3	13.3	15.7	14.5	13.3
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.2	7.2	7.2	7.2	7.2
67.5°	3.6	4.8	4.8	4.8	4.8
70°	3.6	2.4	2.4	2.4	3.6
72.5°	2.4	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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