

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: P755389

Luminaire Tested: LD4D90BD010-EU4DR3070959040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755389
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: LD4D90BD010-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: 7464.3 lumens
Efficiency: N/A
Efficacy: 75.5 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')

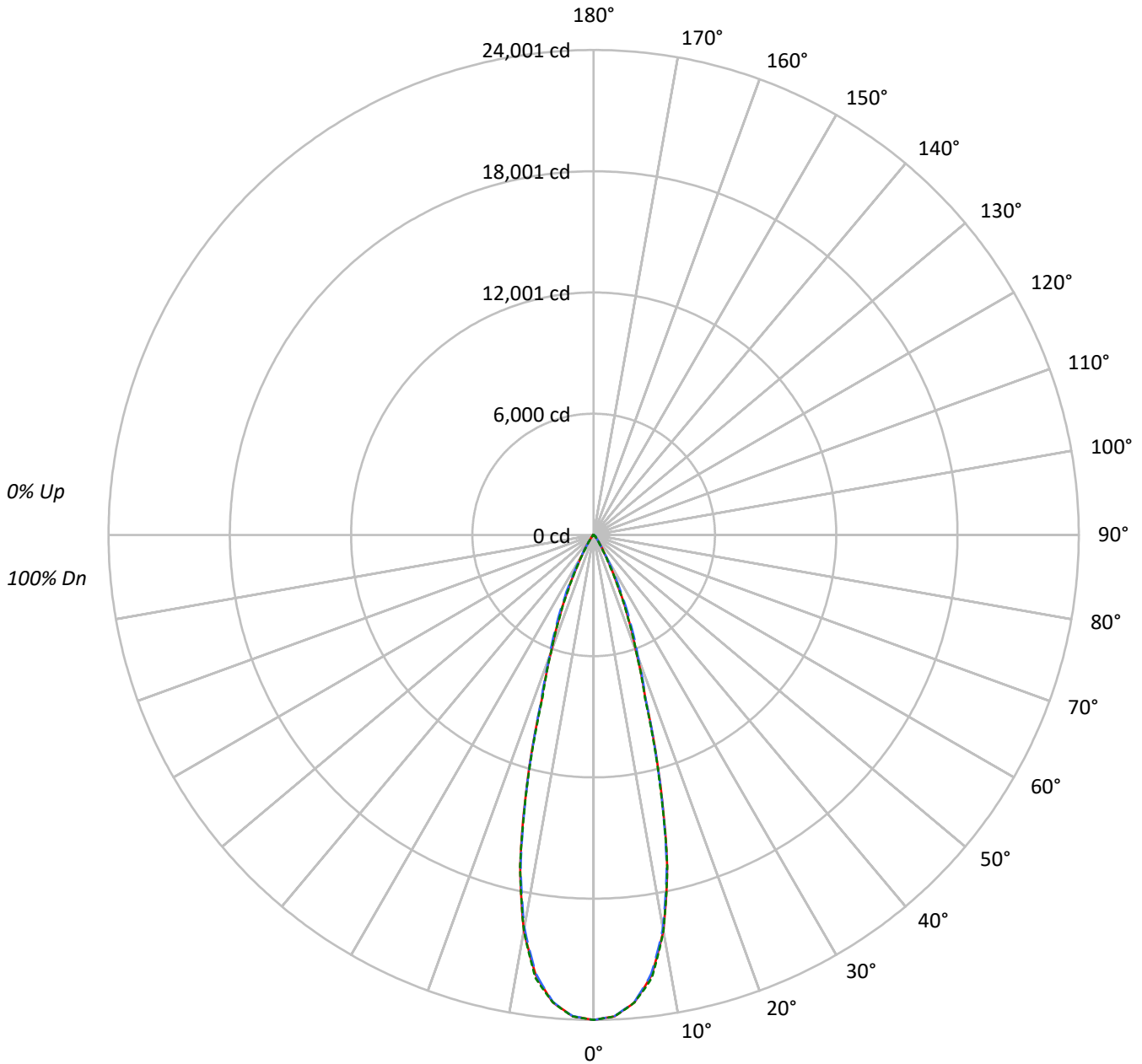
CIE Type: Direct

Input Watts (W): 98.9
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°	1837149	1837149	1837149
5°	1784403	1782321	1784496
10°	1545569	1534672	1545204
15°	1008406	1002994	997946
20°	501434	520250	500758
25°	252583	284829	247415
30°	101130	110189	88111
35°	46908	44927	37657
40°	20254	22492	19075
45°	14289	17731	14419
50°	4906	12908	5192
55°	2829	5351	2989
60°	1990	2342	1990
65°	1286	1286	1286
70°	783	537	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17731 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2110.6	28.3
10°-20°	3399.1	45.5
20°-30°	1468.8	19.7
30°-40°	334.8	4.5
40°-50°	114.9	1.5
50°-60°	28.1	0.4
60°-70°	7.3	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°	6978.5	93.5
0°-40°	7313.2	98.0
0°-60°	7456.3	99.9
0°-90°	7464.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7464.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24001	24001	24001	24001	24001	
5°	23224	23201	23196	23245	23225	2112
15°	12725	12572	12657	12616	12593	3407
25°	2991	3104	3372	3025	2930	1432
35°	502	513	481	477	403	341
45°	132	164	164	164	133	94
55°	21	22	40	24	22	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°	24001.4	24001.4	24001.4	24001.4	24001.4
2.5°	23842.3	23825.8	23835.2	23847.0	23851.7
5°	23223.6	23201.3	23196.5	23244.9	23224.8
7.5°	21975.7	21943.9	21895.6	22005.2	22107.7
10°	19885.3	19849.9	19745.1	19796.9	19880.6
12.5°	16799.1	16684.8	16682.4	16847.4	16825.0
15°	12725.4	12572.2	12657.1	12615.8	12593.4
17.5°	8557.4	8498.5	8611.7	8577.5	8430.2
20°	6155.9	6171.2	6386.9	6278.4	6147.6
22.5°	4492.0	4547.4	4803.1	4523.8	4421.3
25°	2990.7	3103.9	3372.5	3024.9	2929.5
27.5°	1839.5	1891.3	2163.5	1815.9	1764.0
30°	1144.2	1118.3	1246.7	1070.0	996.9
32.5°	750.6	717.6	758.9	681.1	622.2
35°	502.0	512.6	480.8	477.2	403.0
37.5°	313.5	360.6	318.2	339.4	259.2
40°	202.7	261.6	225.1	248.6	190.9
42.5°	166.2	201.5	185.0	196.8	169.7
45°	132.0	163.8	163.8	163.8	133.2
47.5°	73.1	109.6	140.2	111.9	77.8
50°	41.2	55.4	108.4	57.7	43.6
52.5°	28.3	31.8	74.2	33.0	29.5
55°	21.2	22.4	40.1	23.6	22.4
57.5°	16.5	17.7	21.2	17.7	16.5
60°	13.0	13.0	15.3	14.1	13.0
62.5°	9.4	9.4	10.6	9.4	9.4
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.5	4.7	4.7	4.7	4.7
70°	3.5	2.4	2.4	2.4	3.5
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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