

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: P755402

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755402
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-EU4DR3070959050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7517.6 lumens
Efficiency: N/A
Efficacy: 76.0 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

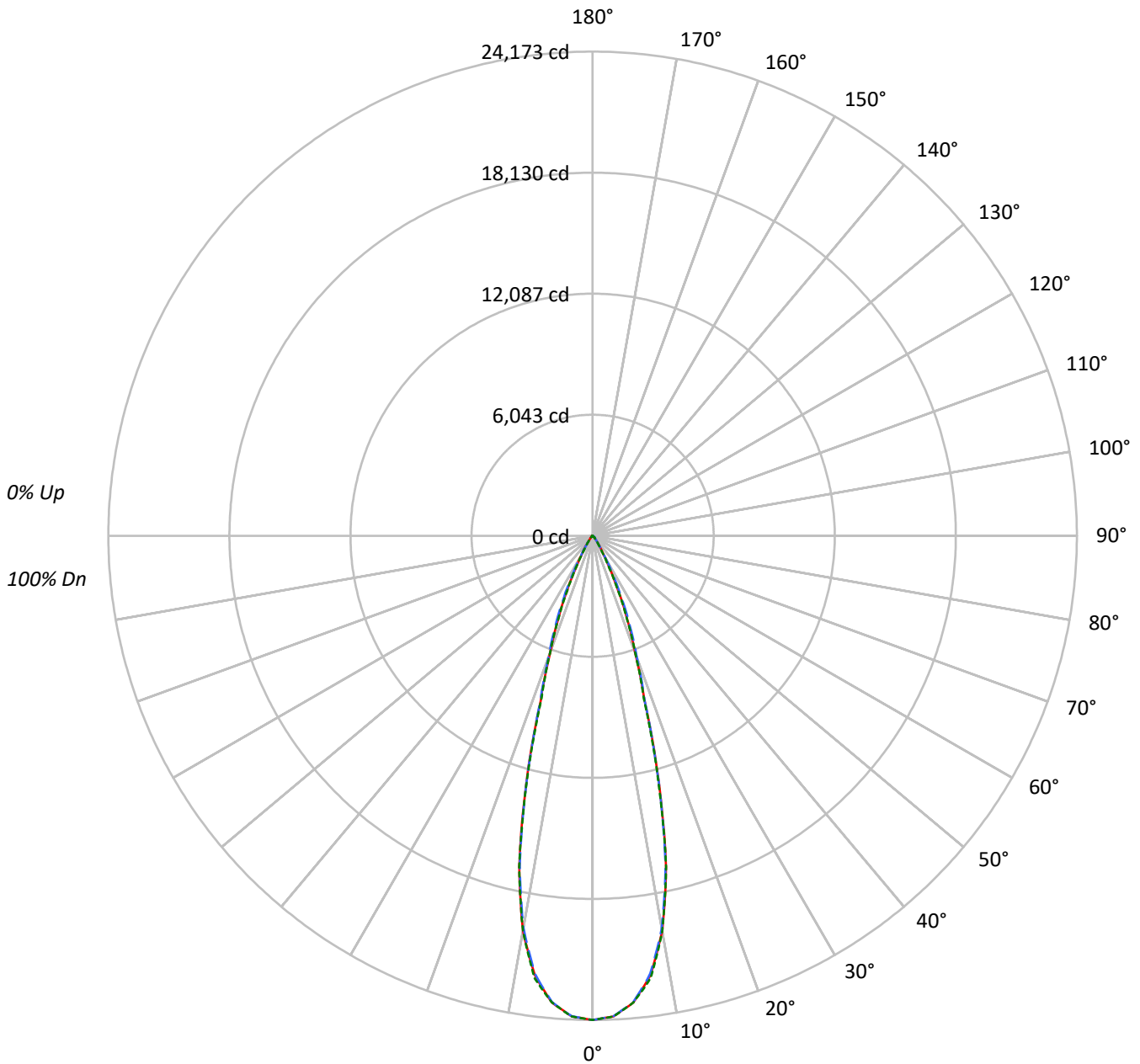
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1850268	1850268	1850268
5°	1797150	1795053	1797243
10°	1556606	1545631	1556241
15°	1015609	1010157	1005078
20°	505018	523964	504342
25°	254391	286864	249180
30°	101855	110976	88738
35°	47244	45245	37928
40°	20394	22652	19215
45°	14386	17861	14516
50°	4942	13004	5228
55°	2856	5391	3003
60°	2005	2358	2005
65°	1286	1286	1286
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: 17861 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2125.6	28.3
10°-20°	3423.4	45.5
20°-30°	1479.3	19.7
30°-40°	337.2	4.5
40°-50°	115.8	1.5
50°-60°	28.3	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°	7028.3	93.5
0°-40°	7365.5	98.0
0°-60°	7509.5	99.9
0°-90°	7517.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7517.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24173	24173	24173	24173	24173	
5°	23390	23367	23362	23411	23391	2127
15°	12816	12662	12748	12706	12683	3432
25°	3012	3126	3397	3046	2950	1442
35°	506	516	484	481	406	343
45°	133	165	165	165	134	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°	24172.8	24172.8	24172.8	24172.8	24172.8
2.5°	24012.6	23996.0	24005.5	24017.4	24022.1
5°	23389.5	23367.0	23362.2	23410.9	23390.7
7.5°	22132.7	22100.7	22052.0	22162.4	22265.6
10°	20027.3	19991.7	19886.1	19938.3	20022.6
12.5°	16919.1	16804.0	16801.6	16967.7	16945.2
15°	12816.3	12662.0	12747.5	12705.9	12683.4
17.5°	8618.6	8559.2	8673.2	8638.7	8490.4
20°	6199.9	6215.3	6432.5	6323.3	6191.6
22.5°	4524.1	4579.9	4837.4	4556.1	4452.9
25°	3012.1	3126.0	3396.6	3046.5	2950.4
27.5°	1852.6	1904.8	2179.0	1828.9	1776.6
30°	1152.4	1126.3	1255.6	1077.6	1004.0
32.5°	756.0	722.8	764.3	686.0	626.6
35°	505.6	516.3	484.2	480.7	405.9
37.5°	315.7	363.2	320.4	341.8	261.1
40°	204.1	263.5	226.7	250.4	192.3
42.5°	167.3	202.9	186.3	198.2	170.9
45°	132.9	165.0	165.0	165.0	134.1
47.5°	73.6	110.4	141.2	112.7	78.3
50°	41.5	55.8	109.2	58.2	43.9
52.5°	28.5	32.0	74.8	33.2	29.7
55°	21.4	22.5	40.4	23.7	22.5
57.5°	16.6	17.8	21.4	17.8	16.6
60°	13.1	13.1	15.4	14.2	13.1
62.5°	9.5	9.5	10.7	9.5	9.5
65°	7.1	7.1	7.1	7.1	7.1
67.5°	3.6	4.7	4.7	4.7	4.7
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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