

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: P755364

Luminaire Tested: LD4D90BD010-EU4DR3070959035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P755364
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-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: 7745.4 lumens
Efficiency: N/A
Efficacy: 78.3 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

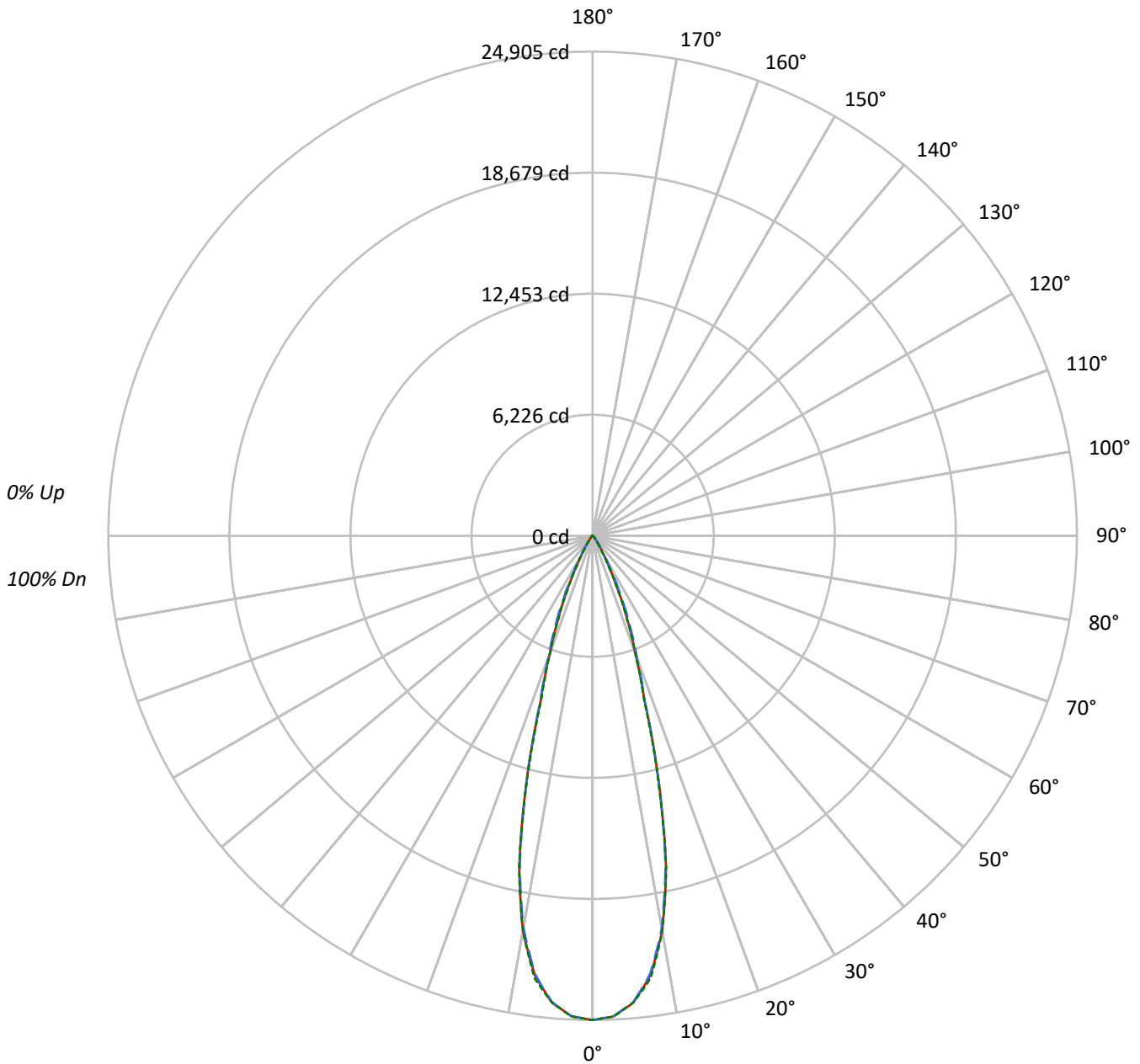
Input Watts (W): 98.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1906329	1906329	1906329
5°	1851604	1849437	1851696
10°	1603769	1592460	1603388
15°	1046379	1040761	1035523
20°	520315	539840	519615
25°	262102	295555	256730
30°	104939	114343	91434
35°	48674	46618	39078
40°	21013	23331	19794
45°	14819	18402	14960
50°	5097	13397	5382
55°	2936	5551	3096
60°	2067	2434	2067
65°	1322	1322	1322
70°	828	537	828
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 18402 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2190.0	28.3
10°-20°	3527.1	45.5
20°-30°	1524.1	19.7
30°-40°	347.4	4.5
40°-50°	119.3	1.5
50°-60°	29.1	0.4
60°-70°	7.5	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°	7241.2	93.5
0°-40°	7588.6	98.0
0°-60°	7737.1	99.9
0°-90°	7745.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7745.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24905	24905	24905	24905	24905	
5°	24098	24075	24070	24120	24099	2192
15°	13205	13046	13134	13091	13068	3536
25°	3103	3221	3500	3139	3040	1485
35°	521	532	499	495	418	353
45°	137	170	170	170	138	97
55°	22	23	42	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°	24905.2	24905.2	24905.2	24905.2	24905.2
2.5°	24740.1	24723.0	24732.8	24745.0	24749.9
5°	24098.2	24074.9	24070.0	24120.2	24099.4
7.5°	22803.3	22770.2	22720.1	22833.8	22940.2
10°	20634.1	20597.4	20488.6	20542.4	20629.2
12.5°	17431.7	17313.1	17310.6	17481.8	17458.6
15°	13204.6	13045.6	13133.7	13090.9	13067.6
17.5°	8879.7	8818.5	8935.9	8900.5	8747.6
20°	6387.7	6403.6	6627.4	6514.9	6379.1
22.5°	4661.2	4718.6	4984.0	4694.2	4587.8
25°	3103.4	3220.8	3499.5	3138.8	3039.8
27.5°	1908.7	1962.5	2245.0	1884.3	1830.5
30°	1187.3	1160.4	1293.7	1110.3	1034.5
32.5°	778.9	744.7	787.5	706.8	645.6
35°	520.9	531.9	498.9	495.2	418.2
37.5°	325.3	374.2	330.1	352.2	269.0
40°	210.3	271.5	233.5	258.0	198.1
42.5°	172.4	209.1	192.0	204.2	176.1
45°	136.9	170.0	170.0	170.0	138.2
47.5°	75.8	113.7	145.5	116.2	80.7
50°	42.8	57.5	112.5	59.9	45.2
52.5°	29.3	33.0	77.0	34.2	30.6
55°	22.0	23.2	41.6	24.5	23.2
57.5°	17.1	18.3	22.0	18.3	17.1
60°	13.5	13.5	15.9	14.7	13.5
62.5°	9.8	9.8	11.0	9.8	9.8
65°	7.3	7.3	7.3	7.3	7.3
67.5°	3.7	4.9	4.9	4.9	4.9
70°	3.7	2.4	2.4	2.4	3.7
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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