

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: P752244

Luminaire Tested: LD4D70BD010-EU4DR3070959035-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752244
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: LD4D70BD010-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: 6112.4 lumens
Efficiency: N/A
Efficacy: 91.8 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

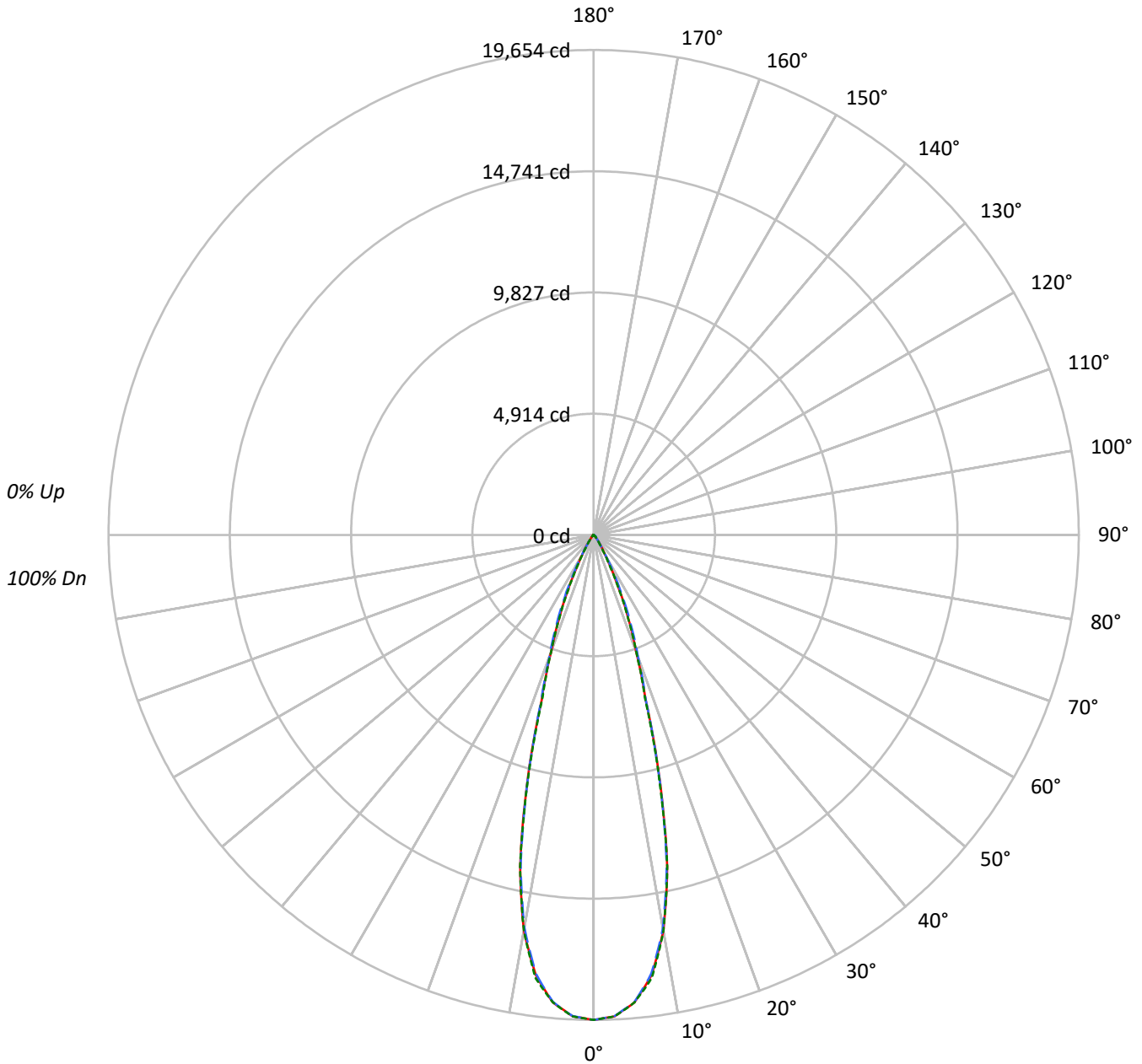
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1504422	1504422	1504422
5°	1461232	1459526	1461309
10°	1265645	1256723	1265350
15°	825773	821336	817207
20°	410619	426022	410065
25°	206842	233243	202602
30°	82816	90232	72157
35°	38414	36788	30836
40°	16587	18415	15618
45°	11702	14516	11799
50°	4025	10574	4251
55°	2322	4377	2442
60°	1623	1914	1623
65°	1050	1050	1050
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 14516 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1728.3	28.3
10°-20°	2783.5	45.5
20°-30°	1202.8	19.7
30°-40°	274.1	4.5
40°-50°	94.1	1.5
50°-60°	23.0	0.4
60°-70°	6.0	0.1
70°-80°	0.6	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°	5714.6	93.5
0°-40°	5988.7	98.0
0°-60°	6105.8	99.9
0°-90°	6112.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6112.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19654	19654	19654	19654	19654	
5°	19018	18999	18995	19035	19019	1730
15°	10421	10295	10365	10331	10313	2790
25°	2449	2542	2762	2477	2399	1172
35°	411	420	394	391	330	279
45°	108	134	134	134	109	77
55°	17	18	33	19	18	17
65°	6	6	6	6	6	6
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°	19654.5	19654.5	19654.5	19654.5	19654.5
2.5°	19524.2	19510.7	19518.4	19528.1	19531.9
5°	19017.6	18999.3	18995.4	19035.0	19018.6
7.5°	17995.7	17969.6	17930.1	18019.8	18103.8
10°	16283.8	16254.9	16169.0	16211.5	16280.0
12.5°	13756.6	13663.0	13661.0	13796.1	13777.8
15°	10420.7	10295.2	10364.7	10330.9	10312.6
17.5°	7007.6	6959.3	7052.0	7024.0	6903.4
20°	5041.0	5053.5	5230.1	5141.3	5034.2
22.5°	3678.5	3723.8	3933.2	3704.5	3620.6
25°	2449.1	2541.7	2761.7	2477.1	2398.9
27.5°	1506.3	1548.8	1771.7	1487.0	1444.6
30°	937.0	915.8	1020.9	876.2	816.4
32.5°	614.7	587.7	621.4	557.8	509.5
35°	411.1	419.8	393.7	390.8	330.0
37.5°	256.7	295.3	260.5	277.9	212.3
40°	166.0	214.2	184.3	203.6	156.3
42.5°	136.1	165.0	151.5	161.1	139.0
45°	108.1	134.1	134.1	134.1	109.0
47.5°	59.8	89.7	114.8	91.7	63.7
50°	33.8	45.4	88.8	47.3	35.7
52.5°	23.2	26.1	60.8	27.0	24.1
55°	17.4	18.3	32.8	19.3	18.3
57.5°	13.5	14.5	17.4	14.5	13.5
60°	10.6	10.6	12.5	11.6	10.6
62.5°	7.7	7.7	8.7	7.7	7.7
65°	5.8	5.8	5.8	5.8	5.8
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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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