

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: P753830

Luminaire Tested: LD4D80BD010-EU4DR3070959050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753830
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: LD4D80BD010-EU4DR3070959050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7230.1 lumens
Efficiency: N/A
Efficacy: 91.6 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

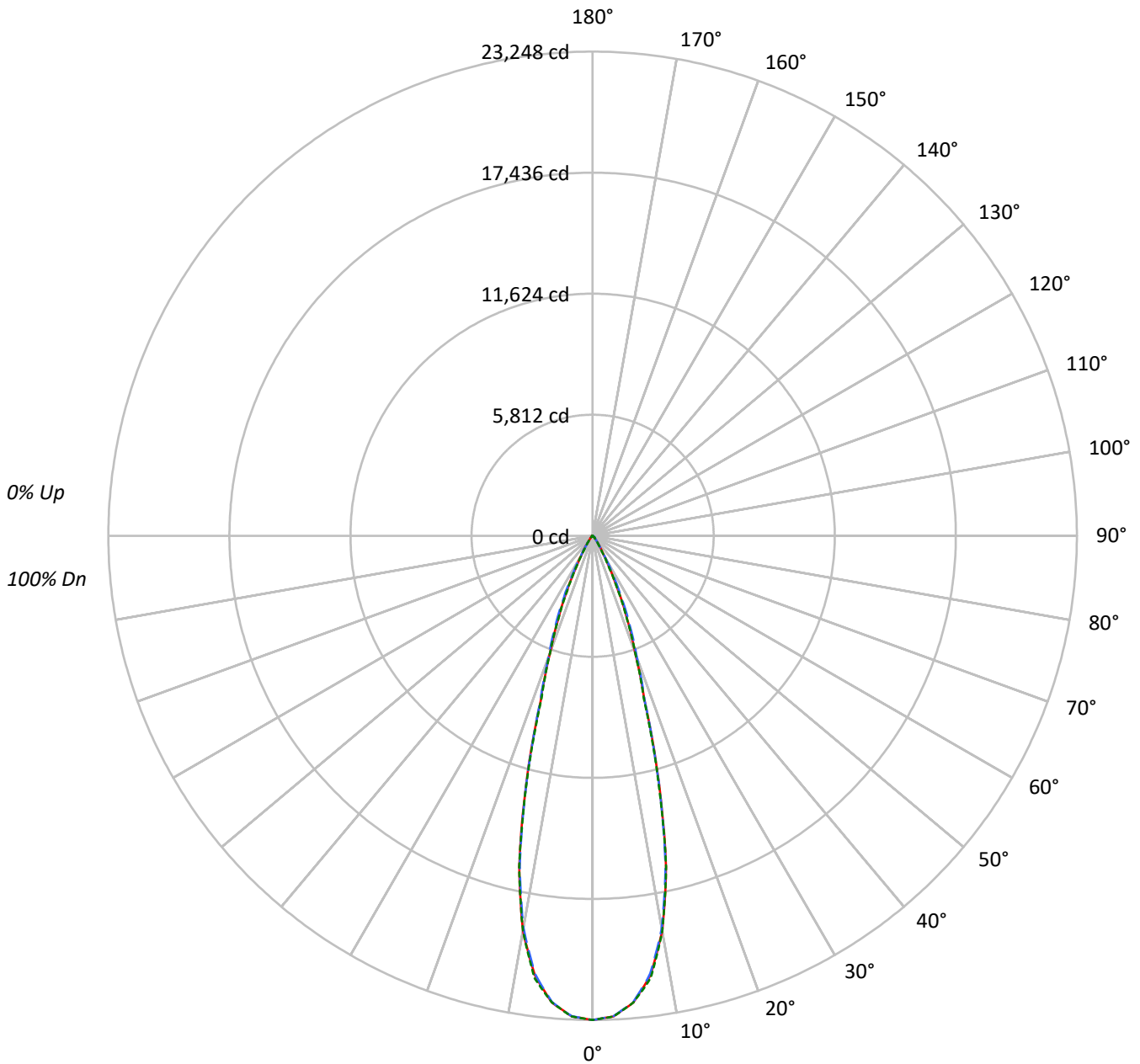
Input Watts (W): 78.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	1779504	1779504	1779504
5°	1728413	1726400	1728505
10°	1497069	1486514	1496712
15°	976764	971518	966637
20°	485696	503918	485045
25°	244661	275893	239645
30°	97957	106733	85344
35°	45432	43516	36480
40°	19614	21783	18475
45°	13834	17179	13964
50°	4751	12503	5025
55°	2736	5178	2896
60°	1929	2266	1929
65°	1232	1232	1232
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17179 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2044.3	28.3
10°-20°	3292.4	45.5
20°-30°	1422.7	19.7
30°-40°	324.3	4.5
40°-50°	111.3	1.5
50°-60°	27.2	0.4
60°-70°	7.0	0.1
70°-80°	0.7	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°	6759.5	93.5
0°-40°	7083.8	98.0
0°-60°	7222.3	99.9
0°-90°	7230.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7230.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23248	23248	23248	23248	23248	
5°	22495	22473	22469	22516	22496	2046
15°	12326	12178	12260	12220	12198	3300
25°	2897	3006	3267	2930	2838	1387
35°	486	496	466	462	390	330
45°	128	159	159	159	129	91
55°	20	22	39	23	22	20
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°	23248.3	23248.3	23248.3	23248.3	23248.3
2.5°	23094.2	23078.2	23087.3	23098.7	23103.3
5°	22494.9	22473.2	22468.7	22515.5	22496.1
7.5°	21286.2	21255.4	21208.6	21314.7	21414.0
10°	19261.3	19227.1	19125.5	19175.7	19256.7
12.5°	16272.0	16161.2	16159.0	16318.8	16297.1
15°	12326.1	12177.7	12259.9	12219.9	12198.3
17.5°	8288.9	8231.9	8341.4	8308.3	8165.7
20°	5962.7	5977.6	6186.4	6081.4	5954.7
22.5°	4351.1	4404.7	4652.4	4381.9	4282.6
25°	2896.9	3006.5	3266.7	2930.0	2837.5
27.5°	1781.7	1832.0	2095.6	1758.9	1708.7
30°	1108.3	1083.2	1207.6	1036.4	965.6
32.5°	727.1	695.1	735.1	659.7	602.7
35°	486.2	496.5	465.7	462.3	390.4
37.5°	303.6	349.3	308.2	328.7	251.1
40°	196.3	253.4	218.0	240.8	184.9
42.5°	160.9	195.2	179.2	190.6	164.4
45°	127.8	158.7	158.7	158.7	129.0
47.5°	70.8	106.2	135.8	108.4	75.3
50°	39.9	53.6	105.0	55.9	42.2
52.5°	27.4	30.8	71.9	32.0	28.5
55°	20.5	21.7	38.8	22.8	21.7
57.5°	16.0	17.1	20.5	17.1	16.0
60°	12.6	12.6	14.8	13.7	12.6
62.5°	9.1	9.1	10.3	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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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