

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: P754597

Luminaire Tested: LD4D85BD010-EU4DR3070959040-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754597
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: LD4D85BD010-EU4DR3070959040-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7642.4 lumens
Efficiency: N/A
Efficacy: 87.1 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

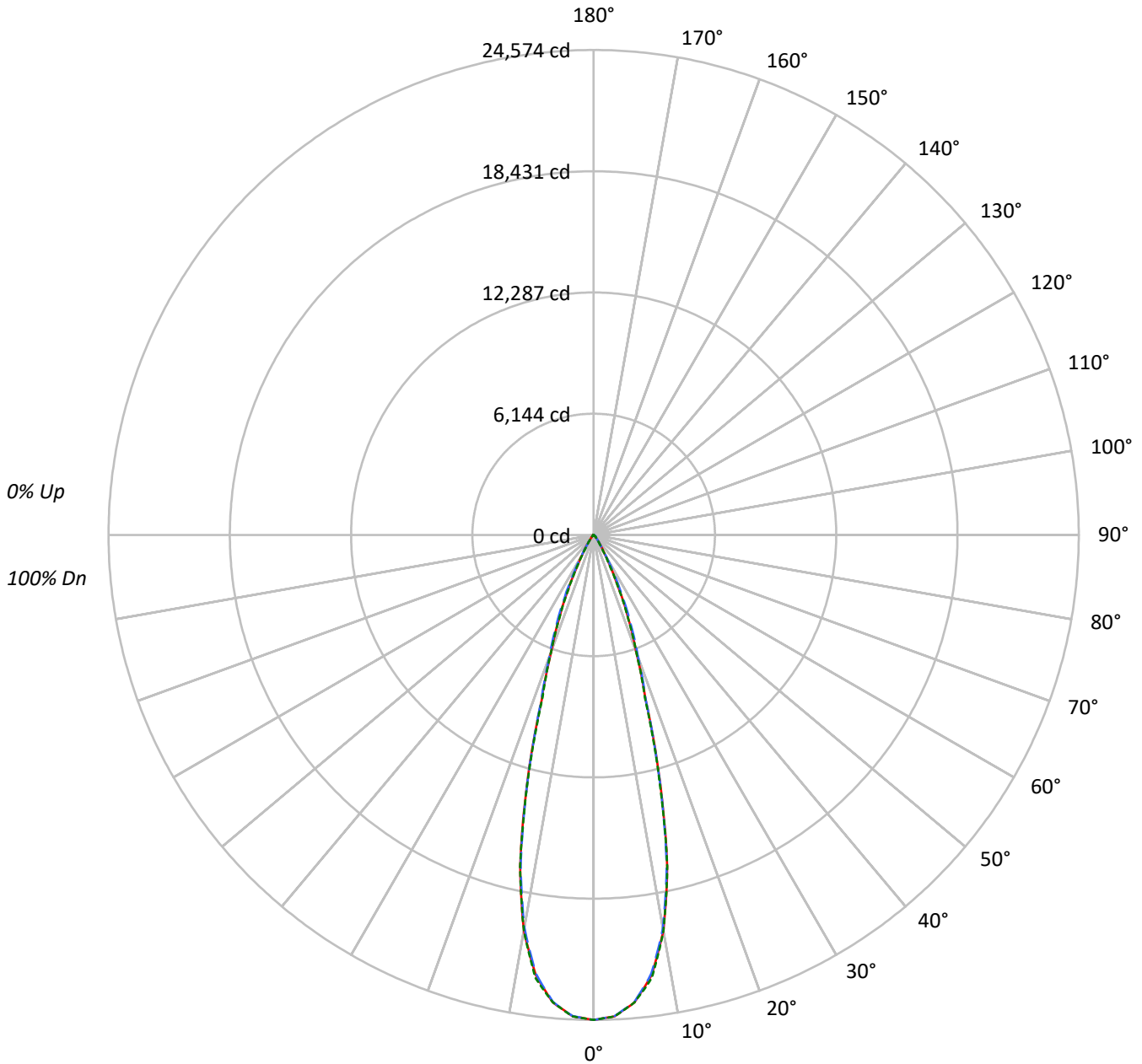
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	1880970	1880970	1880970
5°	1826970	1824842	1827063
10°	1582434	1571280	1582061
15°	1032464	1026917	1021751
20°	513391	532656	512707
25°	258614	291628	253318
30°	103543	112823	90214
35°	48029	46002	38554
40°	20733	23022	19534
45°	14624	18153	14754
50°	5025	13218	5311
55°	2896	5471	3056
60°	2036	2403	2036
65°	1304	1304	1304
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: 18153 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2160.9	28.3
10°-20°	3480.2	45.5
20°-30°	1503.9	19.7
30°-40°	342.8	4.5
40°-50°	117.7	1.5
50°-60°	28.7	0.4
60°-70°	7.4	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°	7144.9	93.5
0°-40°	7487.7	98.0
0°-60°	7634.1	99.9
0°-90°	7642.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7642.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	24574	24574	24574	24574	24574	
5°	23778	23755	23750	23799	23779	2163
15°	13029	12872	12959	12917	12894	3489
25°	3062	3178	3453	3097	2999	1466
35°	514	525	492	489	413	349
45°	135	168	168	168	136	96
55°	22	23	41	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°	24573.9	24573.9	24573.9	24573.9	24573.9
2.5°	24411.0	24394.2	24403.8	24415.9	24420.7
5°	23777.6	23754.7	23749.9	23799.4	23778.8
7.5°	22500.0	22467.4	22417.9	22530.1	22635.1
10°	20359.6	20323.4	20216.1	20269.1	20354.8
12.5°	17199.8	17082.8	17080.4	17249.3	17226.4
15°	13029.0	12872.1	12959.0	12916.8	12893.8
17.5°	8761.6	8701.3	8817.1	8782.1	8631.3
20°	6302.7	6318.4	6539.2	6428.2	6294.3
22.5°	4599.2	4655.9	4917.7	4631.7	4526.8
25°	3062.1	3177.9	3453.0	3097.1	2999.4
27.5°	1883.3	1936.4	2215.1	1859.2	1806.1
30°	1171.5	1145.0	1276.5	1095.5	1020.7
32.5°	768.5	734.8	777.0	697.4	637.0
35°	514.0	524.8	492.3	488.6	412.6
37.5°	320.9	369.2	325.8	347.5	265.4
40°	207.5	267.8	230.4	254.6	195.5
42.5°	170.1	206.3	189.4	201.5	173.7
45°	135.1	167.7	167.7	167.7	136.3
47.5°	74.8	112.2	143.6	114.6	79.6
50°	42.2	56.7	111.0	59.1	44.6
52.5°	29.0	32.6	76.0	33.8	30.2
55°	21.7	22.9	41.0	24.1	22.9
57.5°	16.9	18.1	21.7	18.1	16.9
60°	13.3	13.3	15.7	14.5	13.3
62.5°	9.7	9.7	10.9	9.7	9.7
65°	7.2	7.2	7.2	7.2	7.2
67.5°	3.6	4.8	4.8	4.8	4.8
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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