

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P754545

Luminaire Tested: LD4D85BD010-EU4DR3070959024-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754545
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-EU4DR3070959024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

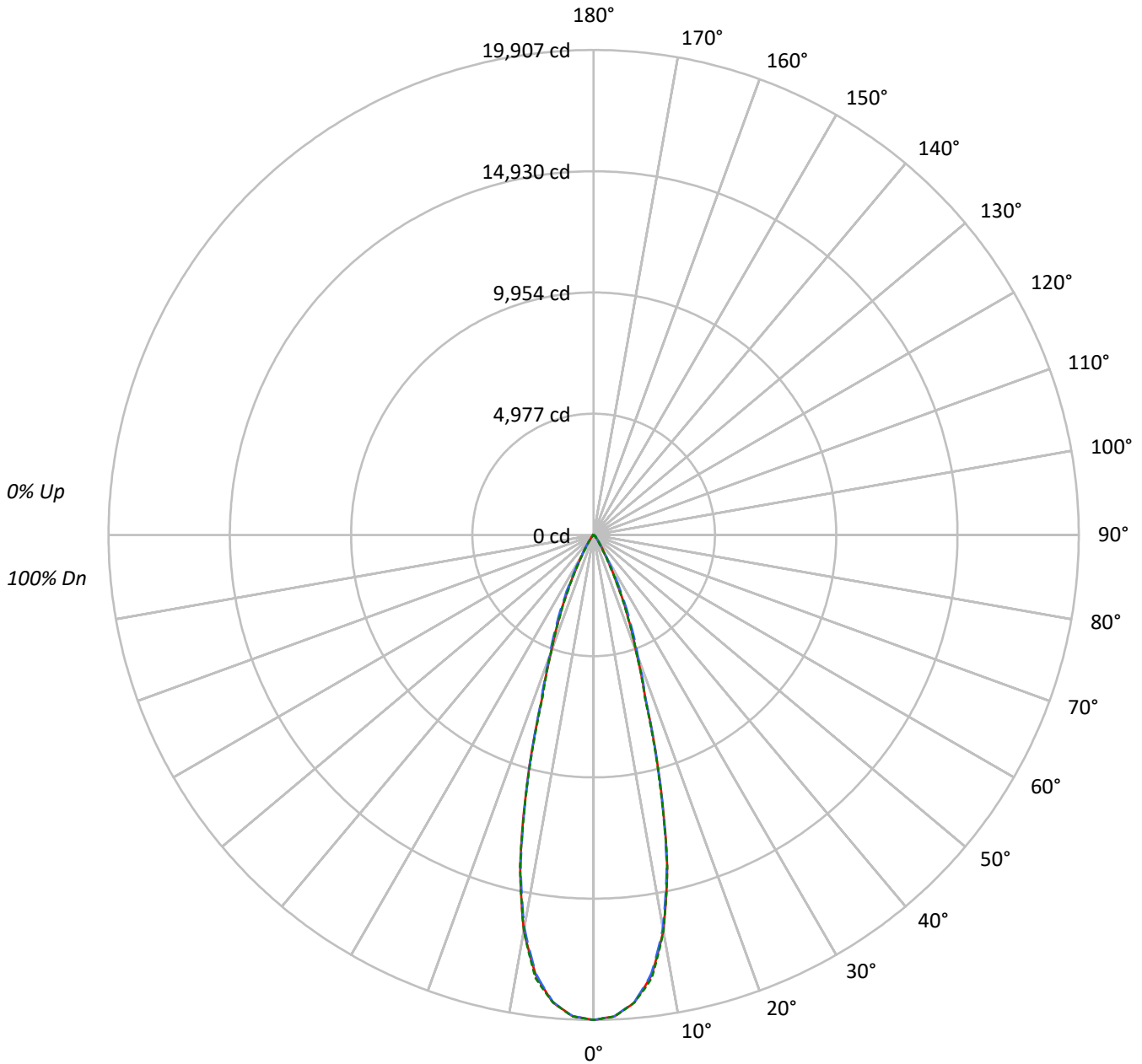
Lumens per Lamp: N/A
Luminaire Lumens: 6191.0 lumens
Efficiency: N/A
Efficacy: 70.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1523742	1523742	1523742
5°	1480003	1478274	1480080
10°	1281905	1272866	1281602
15°	836384	831891	827707
20°	415889	431496	415335
25°	209494	236241	205203
30°	83877	91399	73076
35°	38909	37265	31238
40°	16797	18655	15817
45°	11853	14711	11951
50°	4073	10705	4311
55°	2349	4431	2482
60°	1653	1944	1653
65°	1069	1069	1069
70°	649	448	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: 14711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1750.5	28.3
10°-20°	2819.2	45.5
20°-30°	1218.3	19.7
30°-40°	277.7	4.5
40°-50°	95.3	1.5
50°-60°	23.3	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°	5788.0	93.5
0°-40°	6065.7	98.0
0°-60°	6184.3	99.9
0°-90°	6191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6191.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19907	19907	19907	19907	19907	
5°	19262	19243	19239	19280	19263	1752
15°	10555	10428	10498	10464	10445	2826
25°	2480	2574	2797	2509	2430	1187
35°	416	425	399	396	334	282
45°	110	136	136	136	110	78
55°	18	19	33	20	19	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°	19906.9	19906.9	19906.9	19906.9	19906.9
2.5°	19775.0	19761.3	19769.1	19778.9	19782.8
5°	19261.9	19243.3	19239.4	19279.5	19262.9
7.5°	18226.9	18200.5	18160.4	18251.3	18336.3
10°	16493.0	16463.7	16376.7	16419.7	16489.1
12.5°	13933.3	13838.5	13836.5	13973.4	13954.8
15°	10554.6	10427.5	10497.9	10463.7	10445.1
17.5°	7097.6	7048.7	7142.6	7114.2	6992.1
20°	5105.7	5118.5	5297.3	5207.4	5098.9
22.5°	3725.7	3771.6	3983.7	3752.1	3667.1
25°	2480.5	2574.4	2797.2	2508.9	2429.7
27.5°	1525.7	1568.7	1794.4	1506.1	1463.1
30°	949.0	927.5	1034.1	887.4	826.8
32.5°	622.6	595.2	629.4	564.9	516.0
35°	416.4	425.2	398.8	395.8	334.3
37.5°	260.0	299.1	263.9	281.5	215.0
40°	168.1	217.0	186.7	206.2	158.3
42.5°	137.8	167.1	153.4	163.2	140.7
45°	109.5	135.9	135.9	135.9	110.4
47.5°	60.6	90.9	116.3	92.8	64.5
50°	34.2	45.9	89.9	47.9	36.2
52.5°	23.5	26.4	61.6	27.4	24.4
55°	17.6	18.6	33.2	19.5	18.6
57.5°	13.7	14.7	17.6	14.7	13.7
60°	10.8	10.8	12.7	11.7	10.8
62.5°	7.8	7.8	8.8	7.8	7.8
65°	5.9	5.9	5.9	5.9	5.9
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	2.0	2.0	2.0	2.9
72.5°	2.0	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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