

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: P751490

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751490
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: LD4D65D010-EU4DR3055659050-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

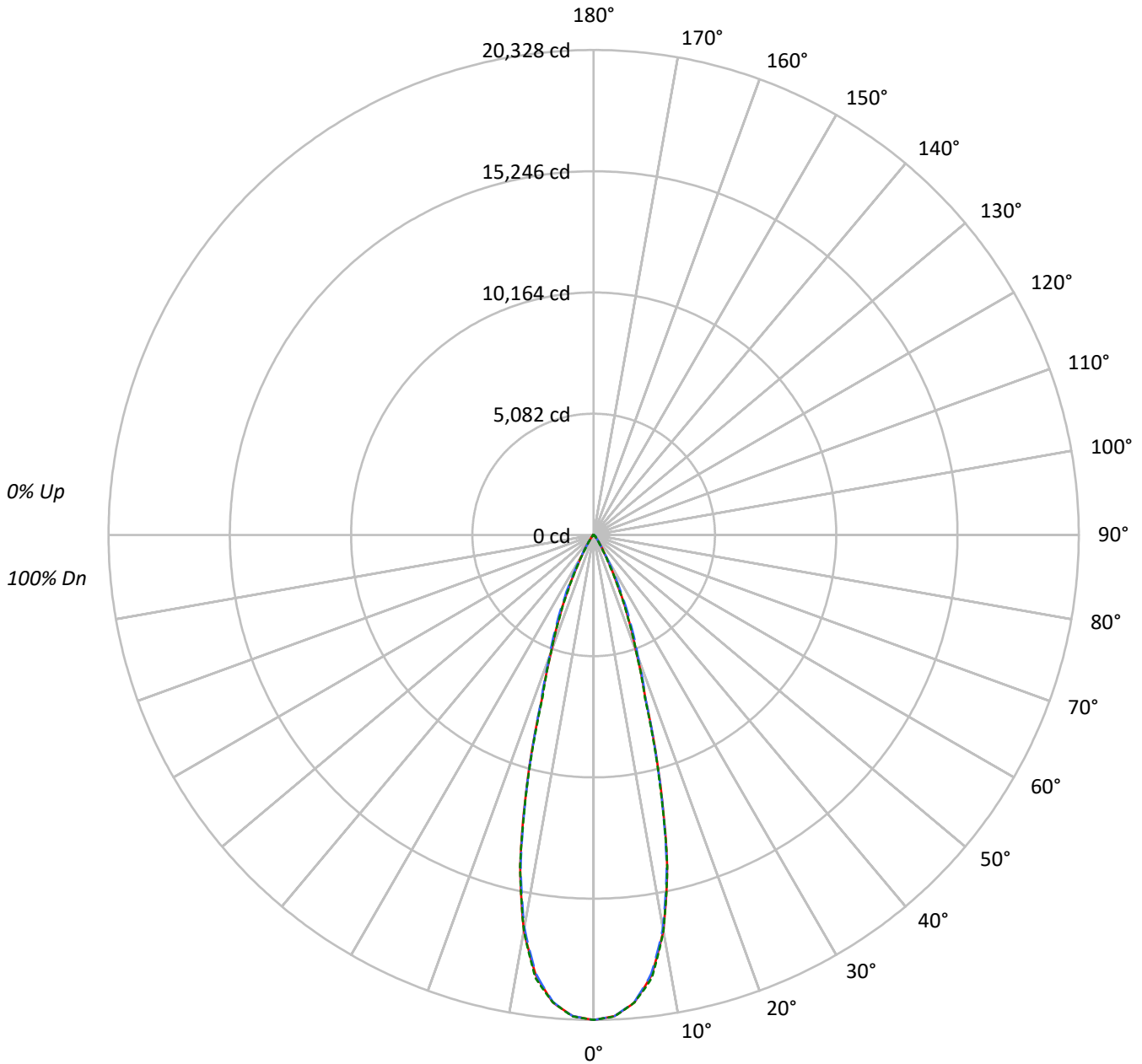
Lumens per Lamp: N/A
Luminaire Lumens: 6321.8 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 72.8
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°	1555936	1555936	1555936
5°	1511268	1509508	1511344
10°	1308992	1299758	1308681
15°	854047	849467	845196
20°	424678	440611	424108
25°	213928	241233	209545
30°	85654	93325	74623
35°	39732	38050	31892
40°	17156	19045	16157
45°	12102	15014	12210
50°	4156	10932	4394
55°	2402	4524	2536
60°	1684	1990	1684
65°	1087	1087	1087
70°	671	448	671
75°	0	296	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 15014 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1787.5	28.3
10°-20°	2878.8	45.5
20°-30°	1244.0	19.7
30°-40°	283.5	4.5
40°-50°	97.4	1.5
50°-60°	23.8	0.4
60°-70°	6.2	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°	5910.3	93.5
0°-40°	6193.8	98.0
0°-60°	6315.0	99.9
0°-90°	6321.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6321.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20328	20328	20328	20328	20328	
5°	19669	19650	19646	19687	19670	1789
15°	10778	10648	10720	10685	10666	2886
25°	2533	2629	2856	2562	2481	1212
35°	425	434	407	404	341	288
45°	112	139	139	139	113	79
55°	18	19	34	20	19	18
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°	20327.5	20327.5	20327.5	20327.5	20327.5
2.5°	20192.8	20178.8	20186.8	20196.8	20200.8
5°	19668.8	19649.9	19645.9	19686.8	19669.8
7.5°	18611.9	18585.0	18544.1	18636.9	18723.7
10°	16841.5	16811.5	16722.7	16766.6	16837.5
12.5°	14227.7	14130.9	14128.9	14268.6	14249.6
15°	10777.5	10647.8	10719.7	10684.7	10665.8
17.5°	7247.6	7197.7	7293.5	7264.5	7139.8
20°	5213.6	5226.6	5409.2	5317.4	5206.6
22.5°	3804.4	3851.3	4067.9	3831.4	3744.5
25°	2533.0	2628.8	2856.3	2561.9	2481.1
27.5°	1557.9	1601.8	1832.4	1537.9	1494.0
30°	969.1	947.1	1055.9	906.2	844.3
32.5°	635.7	607.8	642.7	576.9	527.0
35°	425.2	434.1	407.2	404.2	341.3
37.5°	265.5	305.4	269.5	287.4	219.6
40°	171.7	221.6	190.6	210.6	161.7
42.5°	140.7	170.7	156.7	166.7	143.7
45°	111.8	138.7	138.7	138.7	112.8
47.5°	61.9	92.8	118.8	94.8	65.9
50°	34.9	46.9	91.8	48.9	36.9
52.5°	24.0	26.9	62.9	27.9	25.0
55°	18.0	19.0	33.9	20.0	19.0
57.5°	14.0	15.0	18.0	15.0	14.0
60°	11.0	11.0	13.0	12.0	11.0
62.5°	8.0	8.0	9.0	8.0	8.0
65°	6.0	6.0	6.0	6.0	6.0
67.5°	3.0	4.0	4.0	4.0	4.0
70°	3.0	2.0	2.0	2.0	3.0
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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