

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: P751460

Luminaire Tested: LD4D65D010-EU4DR3055659030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751460
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-EU4DR3055659030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7182.2 lumens
Efficiency: N/A
Efficacy: 98.7 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

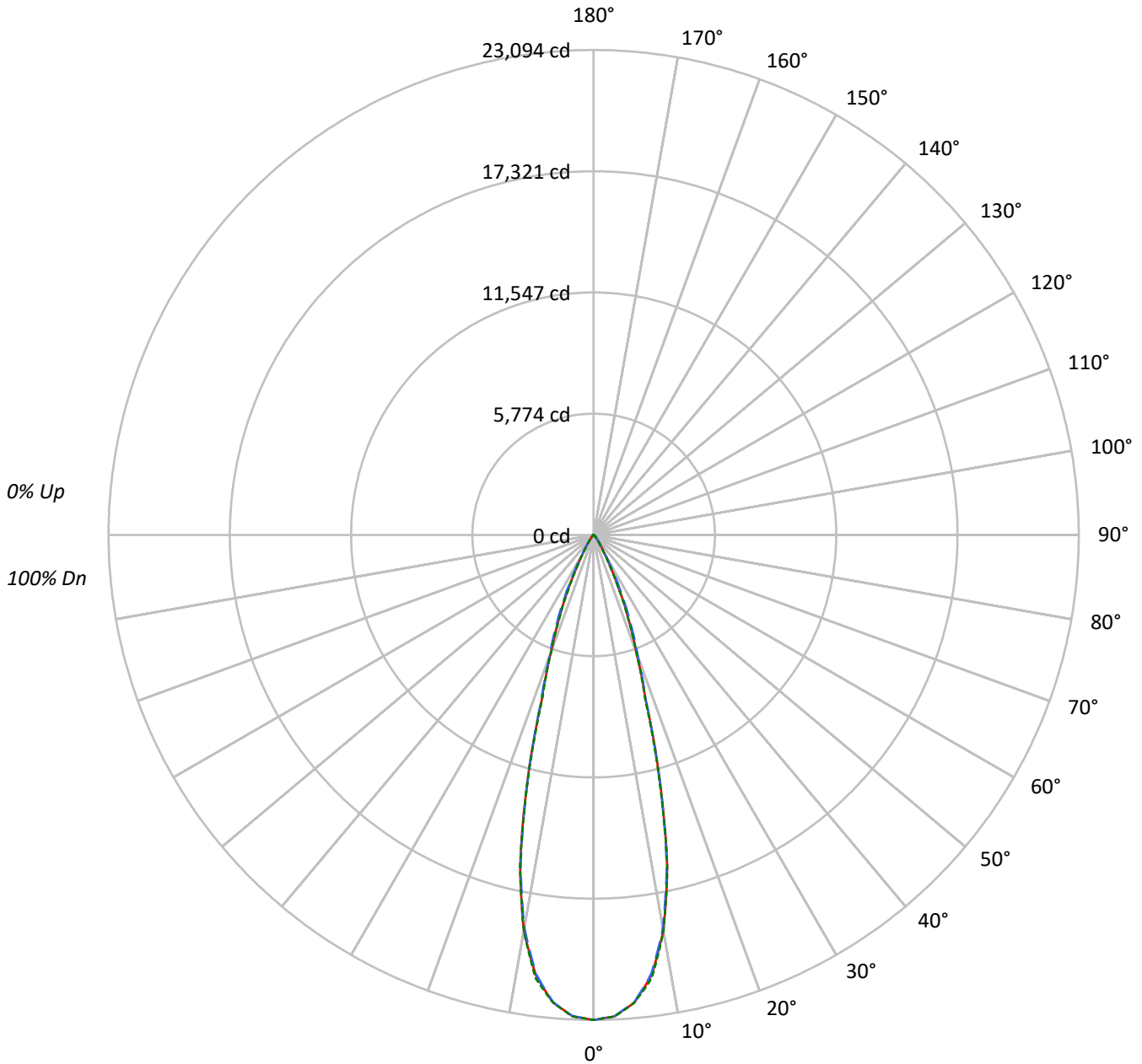
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

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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°	1767716	1767716	1767716
5°	1716972	1714967	1717057
10°	1487159	1476674	1486810
15°	970298	965083	960234
20°	482487	500586	481835
25°	243040	274069	238065
30°	97312	106026	84779
35°	45133	43226	36237
40°	19484	21643	18355
45°	13748	17060	13867
50°	4727	12420	5001
55°	2722	5151	2869
60°	1914	2250	1914
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: 17060 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2030.8	28.3
10°-20°	3270.6	45.5
20°-30°	1413.3	19.7
30°-40°	322.1	4.5
40°-50°	110.6	1.5
50°-60°	27.0	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°	6714.7	93.5
0°-40°	7036.9	98.0
0°-60°	7174.5	99.9
0°-90°	7182.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7182.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23094	23094	23094	23094	23094	
5°	22346	22324	22320	22366	22347	2032
15°	12244	12097	12179	12139	12118	3279
25°	2878	2987	3245	2911	2819	1377
35°	483	493	463	459	388	328
45°	127	158	158	158	128	90
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°	23094.3	23094.3	23094.3	23094.3	23094.3
2.5°	22941.3	22925.4	22934.5	22945.8	22950.3
5°	22346.0	22324.5	22319.9	22366.4	22347.1
7.5°	21145.2	21114.6	21068.1	21173.6	21272.2
10°	19133.8	19099.8	18998.9	19048.7	19129.3
12.5°	16164.2	16054.2	16052.0	16210.7	16189.2
15°	12244.5	12097.1	12178.7	12139.0	12117.5
17.5°	8234.0	8177.4	8286.2	8253.3	8111.6
20°	5923.3	5938.0	6145.5	6041.2	5915.3
22.5°	4322.3	4375.5	4621.6	4352.9	4254.2
25°	2877.7	2986.6	3245.1	2910.6	2818.8
27.5°	1769.9	1819.8	2081.8	1747.3	1697.4
30°	1101.0	1076.0	1199.6	1029.5	959.2
32.5°	722.3	690.5	730.2	655.4	598.7
35°	483.0	493.2	462.6	459.2	387.8
37.5°	301.6	347.0	306.1	326.5	249.4
40°	195.0	251.7	216.6	239.2	183.7
42.5°	159.9	193.9	178.0	189.4	163.3
45°	127.0	157.6	157.6	157.6	128.1
47.5°	70.3	105.4	134.9	107.7	74.8
50°	39.7	53.3	104.3	55.6	42.0
52.5°	27.2	30.6	71.4	31.7	28.3
55°	20.4	21.5	38.6	22.7	21.5
57.5°	15.9	17.0	20.4	17.0	15.9
60°	12.5	12.5	14.7	13.6	12.5
62.5°	9.1	9.1	10.2	9.1	9.1
65°	6.8	6.8	6.8	6.8	6.8
67.5°	3.4	4.5	4.5	4.5	4.5
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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