

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: P751481

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751481
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-EU4DR3055659040-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6873.7 lumens
Efficiency: N/A
Efficacy: 94.4 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

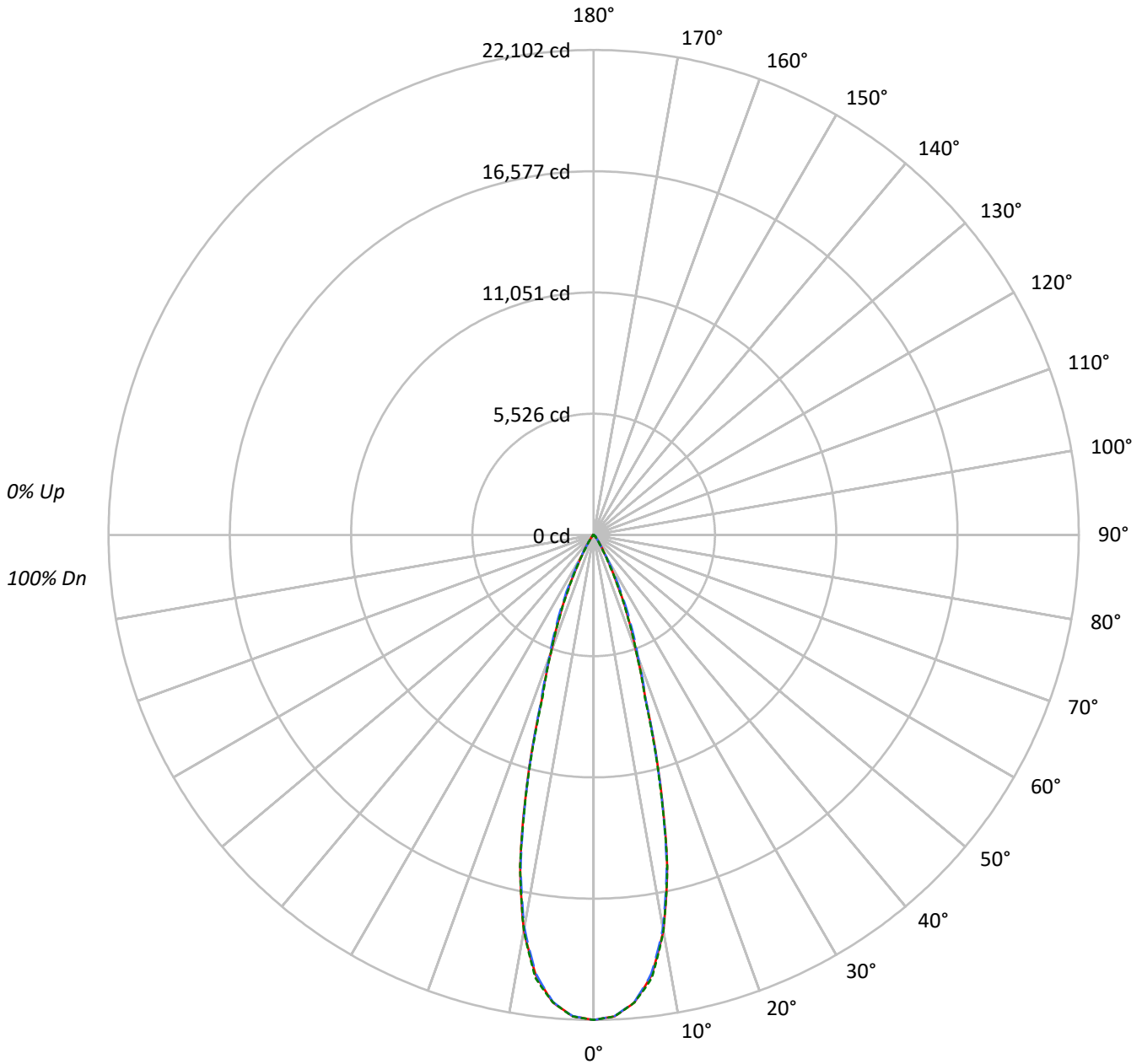
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1691770	1691770	1691770
5°	1643202	1641289	1643287
10°	1423262	1413228	1422928
15°	928608	923623	918980
20°	461757	479082	461137
25°	232601	262296	227838
30°	93131	101474	81137
35°	43198	41367	34676
40°	18645	20713	17566
45°	13152	16324	13271
50°	4525	11884	4787
55°	2602	4924	2749
60°	1822	2159	1822
65°	1177	1177	1177
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16324 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1943.5	28.3
10°-20°	3130.1	45.5
20°-30°	1352.6	19.7
30°-40°	308.3	4.5
40°-50°	105.8	1.5
50°-60°	25.9	0.4
60°-70°	6.7	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°	6426.3	93.5
0°-40°	6734.5	98.0
0°-60°	6866.2	99.9
0°-90°	6873.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6873.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	22102	22102	22102	22102	22102	
5°	21386	21365	21361	21406	21387	1945
15°	11718	11577	11656	11618	11597	3138
25°	2754	2858	3106	2786	2698	1318
35°	462	472	443	440	371	314
45°	122	151	151	151	123	86
55°	20	21	37	22	21	19
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°	22102.1	22102.1	22102.1	22102.1	22102.1
2.5°	21955.6	21940.5	21949.1	21960.0	21964.3
5°	21385.9	21365.3	21361.0	21405.5	21387.0
7.5°	20236.8	20207.5	20163.0	20263.9	20358.3
10°	18311.7	18279.2	18182.6	18230.4	18307.4
12.5°	15469.8	15364.5	15362.3	15514.3	15493.6
15°	11718.4	11577.4	11655.5	11617.5	11596.9
17.5°	7880.3	7826.0	7930.2	7898.7	7763.1
20°	5668.8	5682.9	5881.5	5781.6	5661.2
22.5°	4136.6	4187.6	4423.0	4165.9	4071.4
25°	2754.1	2858.3	3105.7	2785.6	2697.7
27.5°	1693.9	1741.7	1992.3	1672.2	1624.5
30°	1053.7	1029.8	1148.1	985.3	918.0
32.5°	691.2	660.9	698.8	627.2	573.0
35°	462.3	472.0	442.7	439.5	371.1
37.5°	288.6	332.1	293.0	312.5	238.7
40°	186.6	240.9	207.3	229.0	175.8
42.5°	153.0	185.6	170.4	181.2	156.3
45°	121.5	150.8	150.8	150.8	122.6
47.5°	67.3	100.9	129.1	103.1	71.6
50°	38.0	51.0	99.8	53.2	40.2
52.5°	26.0	29.3	68.4	30.4	27.1
55°	19.5	20.6	36.9	21.7	20.6
57.5°	15.2	16.3	19.5	16.3	15.2
60°	11.9	11.9	14.1	13.0	11.9
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.3	4.3	4.3	4.3	4.3
70°	3.3	2.2	2.2	2.2	3.3
72.5°	2.2	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

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Scaled Data Report





— 0°-180° - - 45°-225° - - - 90°-270°

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