

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: P751473

Luminaire Tested: LD4D65D010-EU4DR3055659035-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751473
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-EU4DR3055659035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7257.9 lumens
Efficiency: N/A
Efficacy: 99.7 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

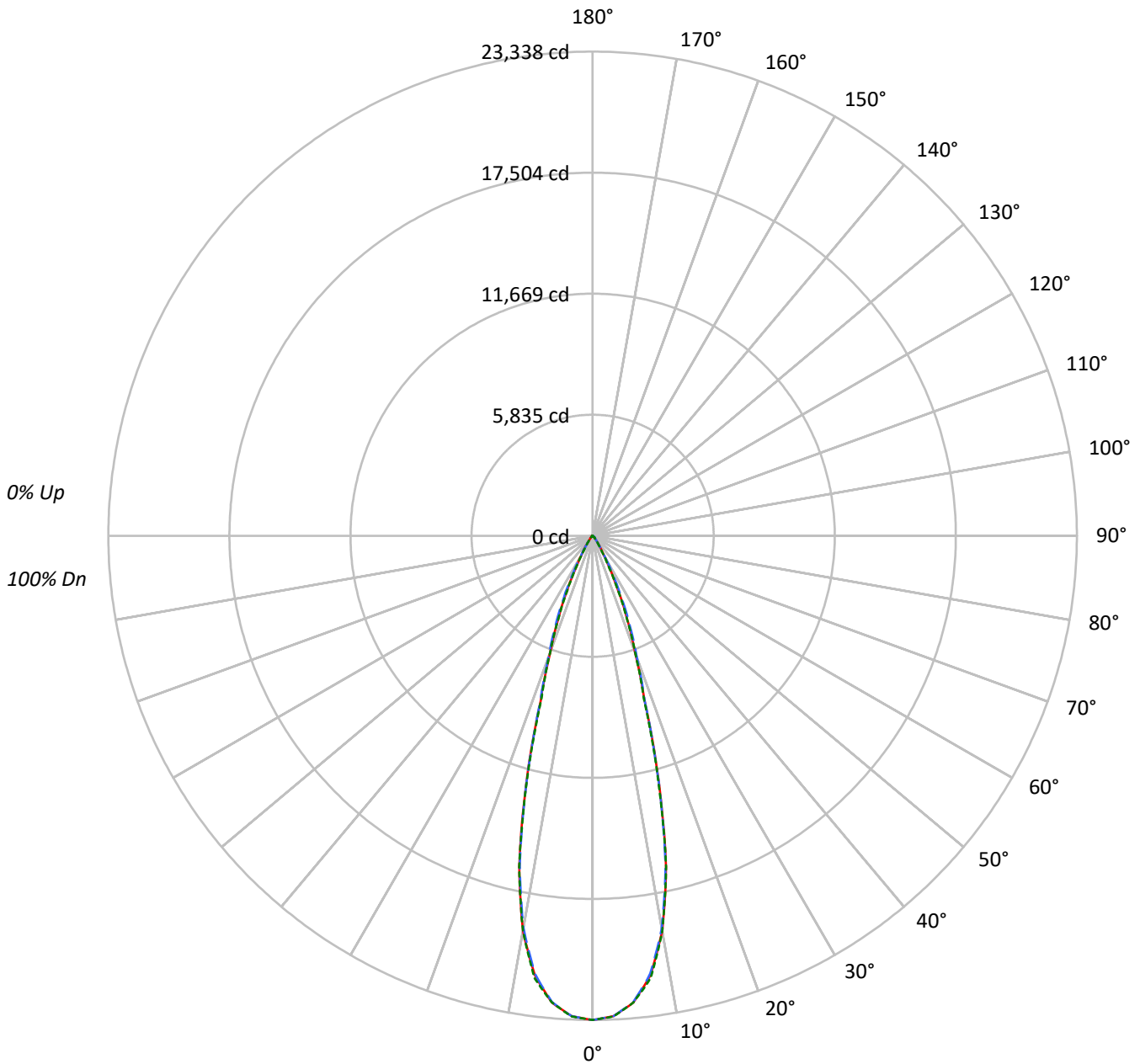
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1786339	1786339	1786339
5°	1735059	1733031	1735144
10°	1502821	1492227	1502463
15°	980520	975250	970345
20°	487562	505857	486910
25°	245599	276958	240574
30°	98337	107149	85671
35°	45609	43684	36620
40°	19694	21863	18545
45°	13888	17244	14018
50°	4775	12551	5049
55°	2749	5205	2909
60°	1929	2281	1929
65°	1250	1250	1250
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: 17244 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2052.2	28.3
10°-20°	3305.1	45.5
20°-30°	1428.2	19.7
30°-40°	325.5	4.5
40°-50°	111.8	1.5
50°-60°	27.3	0.4
60°-70°	7.1	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°	6785.5	93.5
0°-40°	7111.0	98.0
0°-60°	7250.1	99.9
0°-90°	7257.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7257.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23338	23338	23338	23338	23338	
5°	22581	22560	22555	22602	22582	2054
15°	12374	12224	12307	12267	12245	3313
25°	2908	3018	3279	2941	2848	1392
35°	488	498	468	464	392	331
45°	128	159	159	159	130	91
55°	21	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°	23337.6	23337.6	23337.6	23337.6	23337.6
2.5°	23182.9	23166.9	23176.0	23187.5	23192.1
5°	22581.4	22559.6	22555.0	22602.0	22582.5
7.5°	21368.0	21337.0	21290.1	21396.6	21496.3
10°	19335.3	19301.0	19199.0	19249.4	19330.7
12.5°	16334.5	16223.3	16221.1	16381.5	16359.7
15°	12373.5	12224.5	12307.0	12266.9	12245.1
17.5°	8320.8	8263.5	8373.5	8340.3	8197.0
20°	5985.6	6000.5	6210.2	6104.8	5977.6
22.5°	4367.8	4421.6	4670.3	4398.7	4299.0
25°	2908.0	3018.0	3279.3	2941.3	2848.5
27.5°	1788.6	1839.0	2103.7	1765.7	1715.3
30°	1112.6	1087.4	1212.3	1040.4	969.3
32.5°	729.9	697.8	737.9	662.3	605.0
35°	488.1	498.4	467.5	464.0	391.9
37.5°	304.8	350.6	309.4	330.0	252.1
40°	197.1	254.4	218.8	241.8	185.6
42.5°	161.6	195.9	179.9	191.3	165.0
45°	128.3	159.3	159.3	159.3	129.5
47.5°	71.0	106.6	136.3	108.9	75.6
50°	40.1	53.9	105.4	56.1	42.4
52.5°	27.5	30.9	72.2	32.1	28.6
55°	20.6	21.8	39.0	22.9	21.8
57.5°	16.0	17.2	20.6	17.2	16.0
60°	12.6	12.6	14.9	13.7	12.6
62.5°	9.2	9.2	10.3	9.2	9.2
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.4	4.6	4.6	4.6	4.6
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

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Scaled Data Report





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

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