

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: P751498

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751498
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-EU4DR3055659050-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7287.1 lumens
Efficiency: N/A
Efficacy: 100.1 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

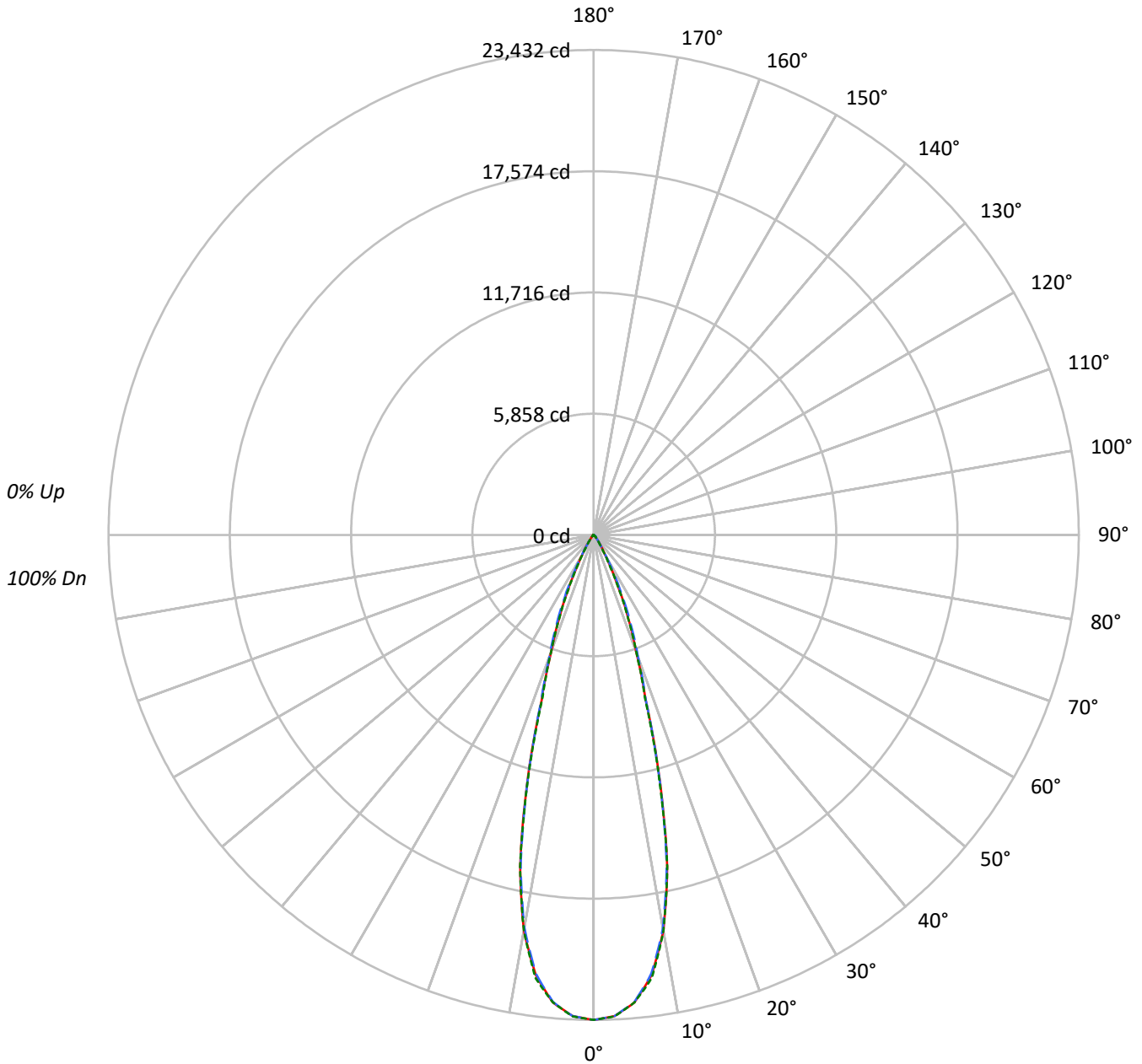
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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°	1793534	1793534	1793534
5°	1742044	1740015	1742136
10°	1508875	1498235	1508518
15°	984466	979181	974260
20°	489533	507893	488873
25°	246587	278072	241537
30°	98726	107573	86016
35°	45796	43862	36760
40°	19774	21952	18625
45°	13942	17309	14072
50°	4799	12599	5073
55°	2762	5218	2923
60°	1944	2296	1944
65°	1250	1250	1250
70°	783	515	783
75°	0	355	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 17309 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2060.5	28.3
10°-20°	3318.4	45.5
20°-30°	1434.0	19.7
30°-40°	326.8	4.5
40°-50°	112.2	1.5
50°-60°	27.4	0.4
60°-70°	7.1	0.1
70°-80°	0.8	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°	6812.8	93.5
0°-40°	7139.6	98.0
0°-60°	7279.3	99.9
0°-90°	7287.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7287.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23432	23432	23432	23432	23432	
5°	22672	22650	22646	22693	22674	2062
15°	12423	12274	12357	12316	12294	3327
25°	2920	3030	3292	2953	2860	1398
35°	490	500	469	466	393	332
45°	129	160	160	160	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°	23431.6	23431.6	23431.6	23431.6	23431.6
2.5°	23276.3	23260.2	23269.4	23280.9	23285.5
5°	22672.3	22650.5	22645.9	22693.0	22673.5
7.5°	21454.0	21423.0	21375.8	21482.8	21582.9
10°	19413.2	19378.7	19276.3	19326.9	19408.6
12.5°	16400.3	16288.7	16286.4	16447.4	16425.6
15°	12423.3	12273.7	12356.6	12316.3	12294.5
17.5°	8354.3	8296.8	8407.2	8373.8	8230.0
20°	6009.8	6024.7	6235.2	6129.4	6001.7
22.5°	4385.4	4439.4	4689.1	4416.4	4316.3
25°	2919.7	3030.2	3292.5	2953.1	2859.9
27.5°	1795.8	1846.4	2112.2	1772.8	1722.2
30°	1117.0	1091.7	1217.1	1044.6	973.2
32.5°	732.8	700.6	740.9	664.9	607.4
35°	490.1	500.4	469.4	465.9	393.4
37.5°	306.0	352.0	310.6	331.3	253.1
40°	197.9	255.4	219.7	242.7	186.4
42.5°	162.2	196.7	180.6	192.1	165.7
45°	128.8	159.9	159.9	159.9	130.0
47.5°	71.3	107.0	136.9	109.3	75.9
50°	40.3	54.1	105.8	56.4	42.6
52.5°	27.6	31.1	72.5	32.2	28.8
55°	20.7	21.9	39.1	23.0	21.9
57.5°	16.1	17.3	20.7	17.3	16.1
60°	12.7	12.7	15.0	13.8	12.7
62.5°	9.2	9.2	10.4	9.2	9.2
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.5	4.6	4.6	4.6	4.6
70°	3.5	2.3	2.3	2.3	3.5
72.5°	2.3	1.2	1.2	1.2	1.2
75°	0.0	0.0	1.2	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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