

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: P749899

Luminaire Tested: LD4D55D010-EU4DR3055659030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749899
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: LD4D55D010-EU4DR3055659030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 5624.3 lumens
Efficiency: N/A
Efficacy: 96.6 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): 58.2
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

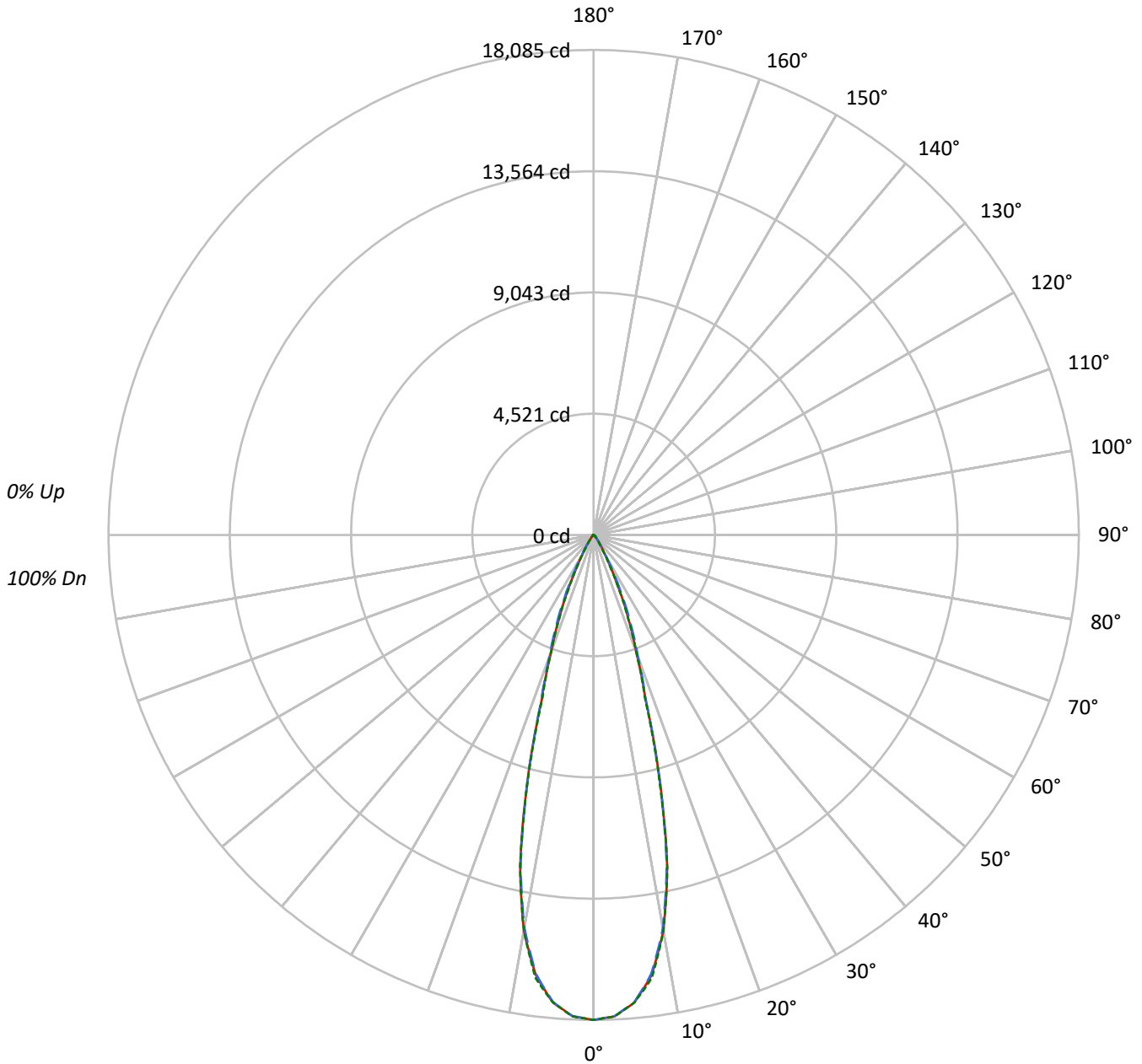


Downlight

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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°	1384280	1384280	1384280
5°	1344542	1342974	1344611
10°	1164581	1156365	1164301
15°	759827	755746	751950
20°	377824	392006	377319
25°	190322	214620	186420
30°	76205	83029	66395
35°	35340	33854	28378
40°	15258	16946	14369
45°	10760	13358	10857
50°	3703	9729	3918
55°	2135	4030	2255
60°	1500	1760	1500
65°	960	960	960
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13358 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1590.3	28.3
10°-20°	2561.2	45.5
20°-30°	1106.8	19.7
30°-40°	252.2	4.5
40°-50°	86.6	1.5
50°-60°	21.2	0.4
60°-70°	5.5	0.1
70°-80°	0.6	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°	5258.2	93.5
0°-40°	5510.5	98.0
0°-60°	5618.3	99.9
0°-90°	5624.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5624.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18085	18085	18085	18085	18085	
5°	17499	17482	17478	17515	17500	1592
15°	9588	9473	9537	9506	9489	2567
25°	2254	2339	2541	2279	2207	1079
35°	378	386	362	360	304	257
45°	99	123	123	123	100	71
55°	16	17	30	18	17	16
65°	5	5	5	5	5	5
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°	18084.9	18084.9	18084.9	18084.9	18084.9
2.5°	17965.1	17952.6	17959.7	17968.6	17972.2
5°	17498.9	17482.0	17478.5	17514.9	17499.8
7.5°	16558.6	16534.6	16498.2	16580.8	16658.1
10°	14983.5	14956.8	14877.8	14916.9	14979.9
12.5°	12658.0	12571.9	12570.1	12694.4	12677.6
15°	9588.5	9473.1	9537.0	9506.0	9489.1
17.5°	6448.0	6403.6	6488.8	6463.1	6352.1
20°	4638.4	4650.0	4812.5	4730.8	4632.2
22.5°	3384.7	3426.4	3619.1	3408.7	3331.4
25°	2253.5	2338.8	2541.2	2279.3	2207.3
27.5°	1386.0	1425.1	1630.2	1368.3	1329.2
30°	862.2	842.6	939.4	806.2	751.2
32.5°	565.6	540.7	571.8	513.2	468.8
35°	378.2	386.2	362.3	359.6	303.7
37.5°	236.2	271.7	239.7	255.7	195.3
40°	152.7	197.1	169.6	187.3	143.8
42.5°	125.2	151.8	139.4	148.3	127.9
45°	99.4	123.4	123.4	123.4	100.3
47.5°	55.1	82.6	105.7	84.4	58.6
50°	31.1	41.7	81.7	43.5	32.9
52.5°	21.3	24.0	55.9	24.9	22.2
55°	16.0	16.9	30.2	17.8	16.9
57.5°	12.4	13.3	16.0	13.3	12.4
60°	9.8	9.8	11.5	10.7	9.8
62.5°	7.1	7.1	8.0	7.1	7.1
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.7	3.6	3.6	3.6	3.6
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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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