

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: P751429

Luminaire Tested: LD4D65D010-EU4DR3055659024-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751429
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-EU4DR3055659024-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5568.2 lumens
Efficiency: N/A
Efficacy: 76.5 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

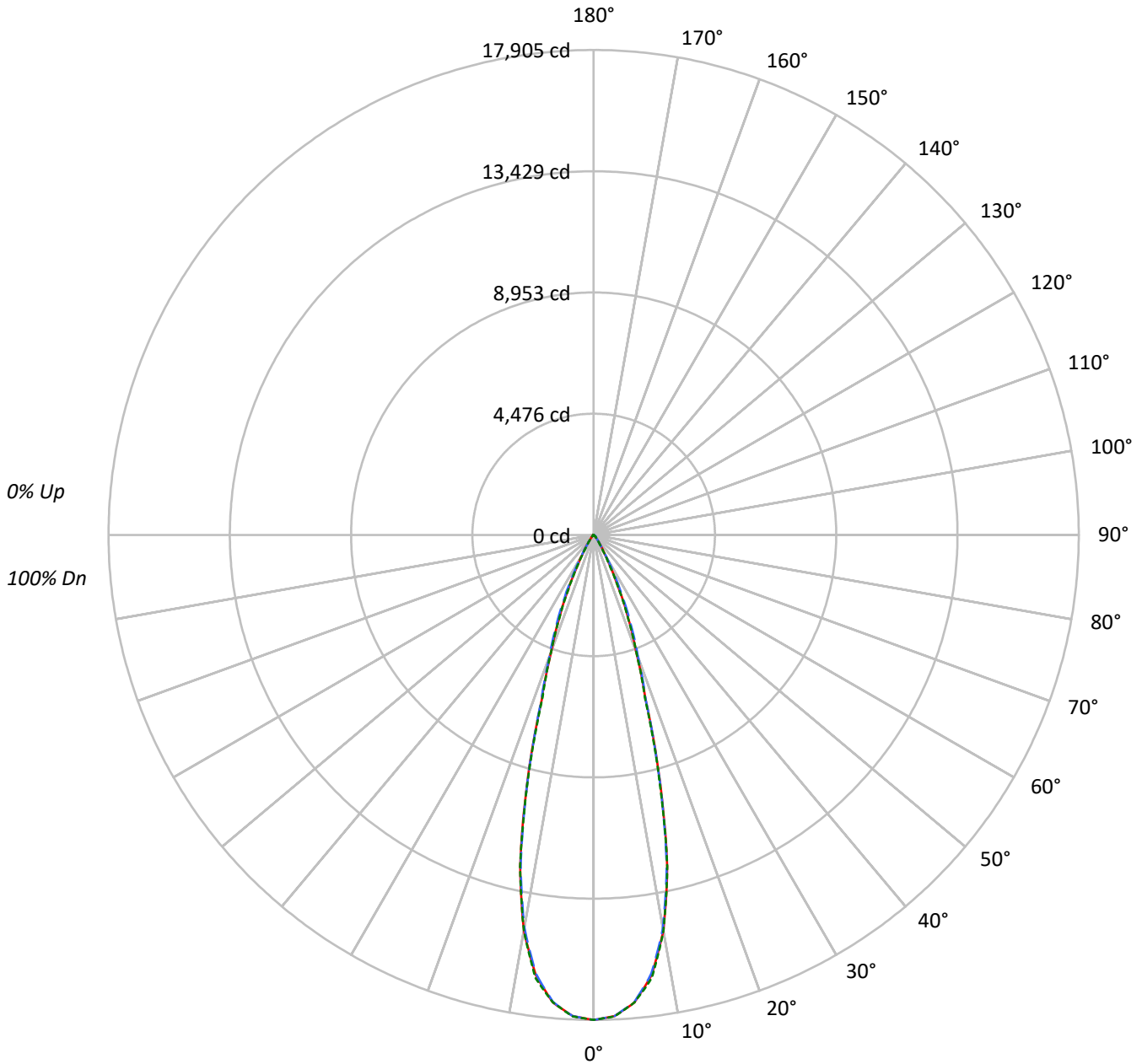


Downlight

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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	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1370479	1370479	1370479
5°	1331134	1329582	1331203
10°	1152961	1144831	1152689
15°	752251	748210	744454
20°	374061	388096	373556
25°	188422	212484	184562
30°	75445	82198	65732
35°	34994	33518	28089
40°	15108	16777	14229
45°	10662	13228	10749
50°	3668	9634	3870
55°	2108	3990	2229
60°	1485	1745	1485
65°	960	960	960
70°	582	403	582
75°	0	266	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 13228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1574.4	28.3
10°-20°	2535.6	45.5
20°-30°	1095.7	19.7
30°-40°	249.7	4.5
40°-50°	85.8	1.5
50°-60°	20.9	0.4
60°-70°	5.4	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°	5205.8	93.5
0°-40°	5455.5	98.0
0°-60°	5562.2	99.9
0°-90°	5568.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5568.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	17905	17905	17905	17905	17905	
5°	17324	17308	17304	17340	17325	1576
15°	9493	9379	9442	9411	9394	2542
25°	2231	2315	2516	2256	2185	1068
35°	374	382	359	356	301	254
45°	98	122	122	122	99	70
55°	16	17	30	18	17	15
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°	17904.6	17904.6	17904.6	17904.6	17904.6
2.5°	17785.9	17773.6	17780.6	17789.4	17792.9
5°	17324.4	17307.7	17304.2	17340.2	17325.3
7.5°	16393.5	16369.8	16333.7	16415.5	16491.9
10°	14834.0	14807.7	14729.4	14768.1	14830.5
12.5°	12531.8	12446.5	12444.8	12567.8	12551.1
15°	9492.9	9378.6	9441.9	9411.2	9394.5
17.5°	6383.7	6339.7	6424.1	6398.6	6288.8
20°	4592.2	4603.6	4764.5	4683.6	4586.0
22.5°	3351.0	3392.3	3583.0	3374.7	3298.2
25°	2231.0	2315.4	2515.9	2256.5	2185.3
27.5°	1372.2	1410.9	1613.9	1354.6	1315.9
30°	853.6	834.2	930.0	798.2	743.7
32.5°	560.0	535.3	566.1	508.1	464.1
35°	374.5	382.4	358.7	356.0	300.6
37.5°	233.8	269.0	237.3	253.2	193.4
40°	151.2	195.2	167.9	185.5	142.4
42.5°	123.9	150.3	138.0	146.8	126.6
45°	98.5	122.2	122.2	122.2	99.3
47.5°	54.5	81.8	104.6	83.5	58.0
50°	30.8	41.3	80.9	43.1	32.5
52.5°	21.1	23.7	55.4	24.6	22.0
55°	15.8	16.7	29.9	17.6	16.7
57.5°	12.3	13.2	15.8	13.2	12.3
60°	9.7	9.7	11.4	10.5	9.7
62.5°	7.0	7.0	7.9	7.0	7.0
65°	5.3	5.3	5.3	5.3	5.3
67.5°	2.6	3.5	3.5	3.5	3.5
70°	2.6	1.8	1.8	1.8	2.6
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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