

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: P746034

Luminaire Tested: LD4D30D010-EU4DR3020359050-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746034
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: LD4D30D010-EU4DR3020359050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 2803.8 lumens
Efficiency: N/A
Efficacy: 96.7 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): 29
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

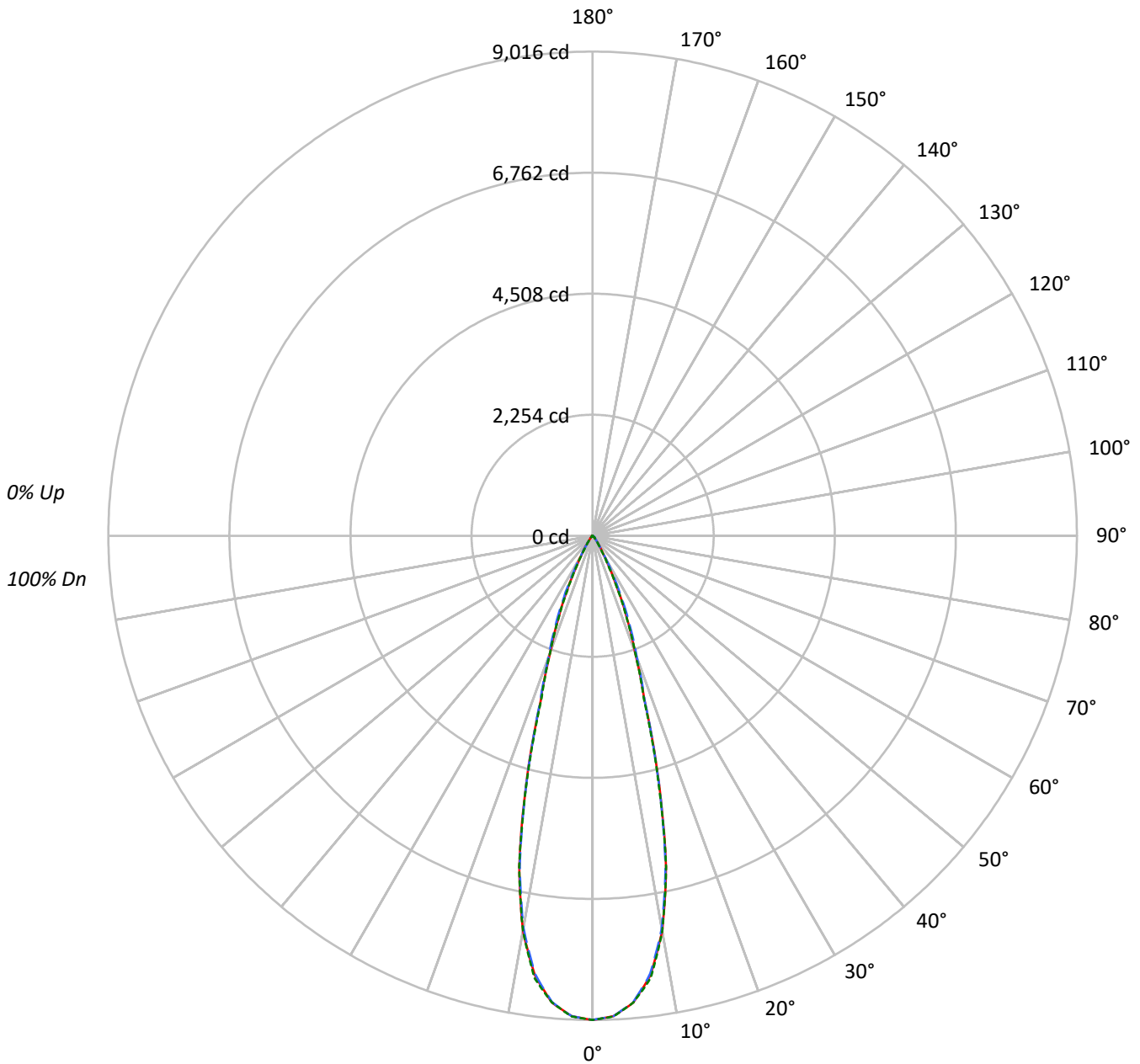


Downlight



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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°	690085	690085	690085
5°	670277	669493	670308
10°	580561	576465	580421
15°	378784	376748	374862
20°	188350	195421	188098
25°	94878	106998	92936
30°	37988	41391	33100
35°	17623	16876	14147
40°	7604	8453	7164
45°	5369	6657	5412
50°	1846	4847	1953
55°	1068	2015	1121
60°	750	873	750
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6657 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	792.8	28.3
10°-20°	1276.8	45.5
20°-30°	551.7	19.7
30°-40°	125.8	4.5
40°-50°	43.2	1.5
50°-60°	10.6	0.4
60°-70°	2.7	0.1
70°-80°	0.3	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°	2621.3	93.5
0°-40°	2747.1	98.0
0°-60°	2800.8	99.9
0°-90°	2803.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2803.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9016	9016	9016	9016	9016	
5°	8724	8715	8713	8731	8724	793
15°	4780	4722	4754	4739	4730	1280
25°	1123	1166	1267	1136	1100	538
35°	189	193	181	179	151	128
45°	50	62	62	62	50	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	9015.6	9015.6	9015.6	9015.6	9015.6
2.5°	8955.9	8949.7	8953.2	8957.6	8959.4
5°	8723.5	8715.1	8713.3	8731.4	8723.9
7.5°	8254.7	8242.8	8224.7	8265.8	8304.3
10°	7469.5	7456.2	7416.8	7436.3	7467.7
12.5°	6310.3	6267.3	6266.4	6328.4	6320.0
15°	4780.0	4722.5	4754.3	4738.9	4730.5
17.5°	3214.4	3192.3	3234.8	3221.9	3166.6
20°	2312.3	2318.1	2399.1	2358.4	2309.2
22.5°	1687.3	1708.1	1804.2	1699.3	1660.8
25°	1123.4	1165.9	1266.9	1136.3	1100.4
27.5°	691.0	710.5	812.7	682.1	662.6
30°	429.8	420.1	468.3	401.9	374.5
32.5°	281.9	269.6	285.0	255.8	233.7
35°	188.6	192.6	180.6	179.3	151.4
37.5°	117.7	135.4	119.5	127.5	97.4
40°	76.1	98.3	84.6	93.4	71.7
42.5°	62.4	75.7	69.5	73.9	63.7
45°	49.6	61.5	61.5	61.5	50.0
47.5°	27.4	41.1	52.7	42.1	29.2
50°	15.5	20.8	40.7	21.7	16.4
52.5°	10.6	12.0	27.9	12.4	11.1
55°	8.0	8.4	15.1	8.9	8.4
57.5°	6.2	6.6	8.0	6.6	6.2
60°	4.9	4.9	5.7	5.3	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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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