

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: P746000

Luminaire Tested: LD4D30D010-EU4DR3020359030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P746000
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-EU4DR3020359030-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 2890.6 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): 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

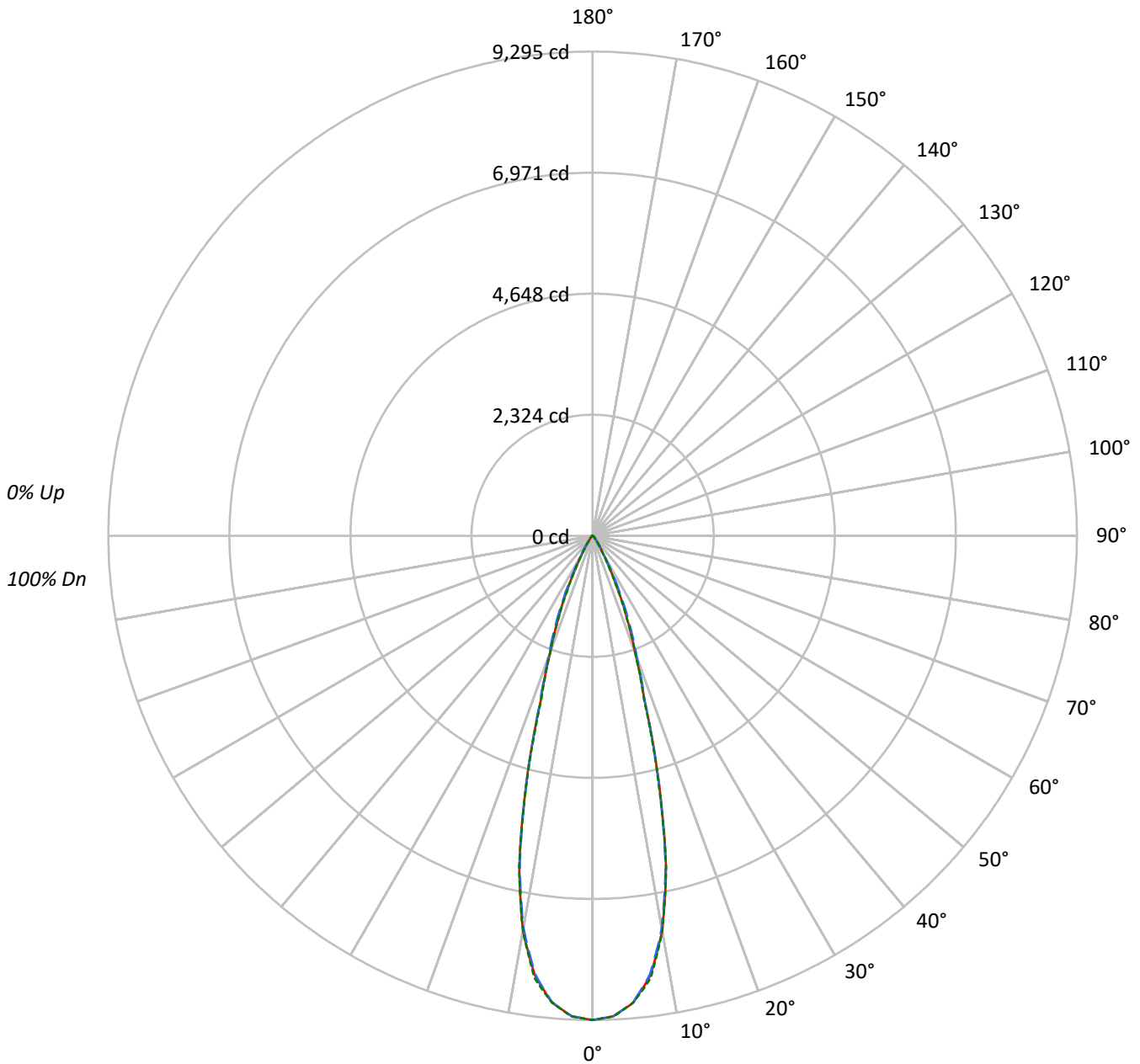


Downlight



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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°	711456	711456	711456
5°	691030	690223	691061
10°	598531	594310	598391
15°	390512	388412	386463
20°	194182	201473	193922
25°	97817	110300	95807
30°	39163	42672	34125
35°	18165	17399	14586
40°	7844	8703	7384
45°	5532	6863	5586
50°	1905	5001	2012
55°	1094	2068	1161
60°	765	919	765
65°	507	507	507
70°	313	201	313
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6863 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	817.3	28.3
10°-20°	1316.3	45.5
20°-30°	568.8	19.7
30°-40°	129.6	4.5
40°-50°	44.5	1.5
50°-60°	10.9	0.4
60°-70°	2.8	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°	2702.5	93.5
0°-40°	2832.1	98.0
0°-60°	2887.5	99.9
0°-90°	2890.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2890.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9295	9295	9295	9295	9295	
5°	8994	8985	8983	9002	8994	818
15°	4928	4869	4902	4886	4877	1320
25°	1158	1202	1306	1171	1134	554
35°	194	198	186	185	156	132
45°	51	63	63	63	52	36
55°	8	9	16	9	9	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°	9294.8	9294.8	9294.8	9294.8	9294.8
2.5°	9233.2	9226.7	9230.4	9234.9	9236.8
5°	8993.6	8984.9	8983.1	9001.7	8994.0
7.5°	8510.3	8497.9	8479.3	8521.7	8561.4
10°	7700.7	7687.1	7646.4	7666.5	7698.9
12.5°	6505.6	6461.3	6460.4	6524.3	6515.7
15°	4928.0	4868.7	4901.5	4885.6	4876.9
17.5°	3313.9	3291.1	3334.9	3321.7	3264.7
20°	2383.9	2389.8	2473.4	2431.4	2380.7
22.5°	1739.6	1761.0	1860.0	1751.9	1712.2
25°	1158.2	1202.0	1306.0	1171.4	1134.4
27.5°	712.3	732.4	837.8	703.2	683.1
30°	443.1	433.1	482.8	414.4	386.1
32.5°	290.7	277.9	293.9	263.8	240.9
35°	194.4	198.5	186.2	184.8	156.1
37.5°	121.4	139.6	123.2	131.4	100.4
40°	78.5	101.3	87.1	96.3	73.9
42.5°	64.3	78.0	71.6	76.2	65.7
45°	51.1	63.4	63.4	63.4	51.6
47.5°	28.3	42.5	54.3	43.4	30.1
50°	16.0	21.4	42.0	22.3	16.9
52.5°	10.9	12.3	28.8	12.8	11.4
55°	8.2	8.7	15.5	9.1	8.7
57.5°	6.4	6.8	8.2	6.8	6.4
60°	5.0	5.0	6.0	5.5	5.0
62.5°	3.7	3.7	4.1	3.7	3.7
65°	2.8	2.8	2.8	2.8	2.8
67.5°	1.4	1.8	1.8	1.8	1.8
70°	1.4	0.9	0.9	0.9	1.4
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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