

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: P745982

Luminaire Tested: LD4D30D010-EU4DR3020359027-4LBDP1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P745982
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-EU4DR3020359027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2532.9 lumens
Efficiency: N/A
Efficacy: 87.3 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

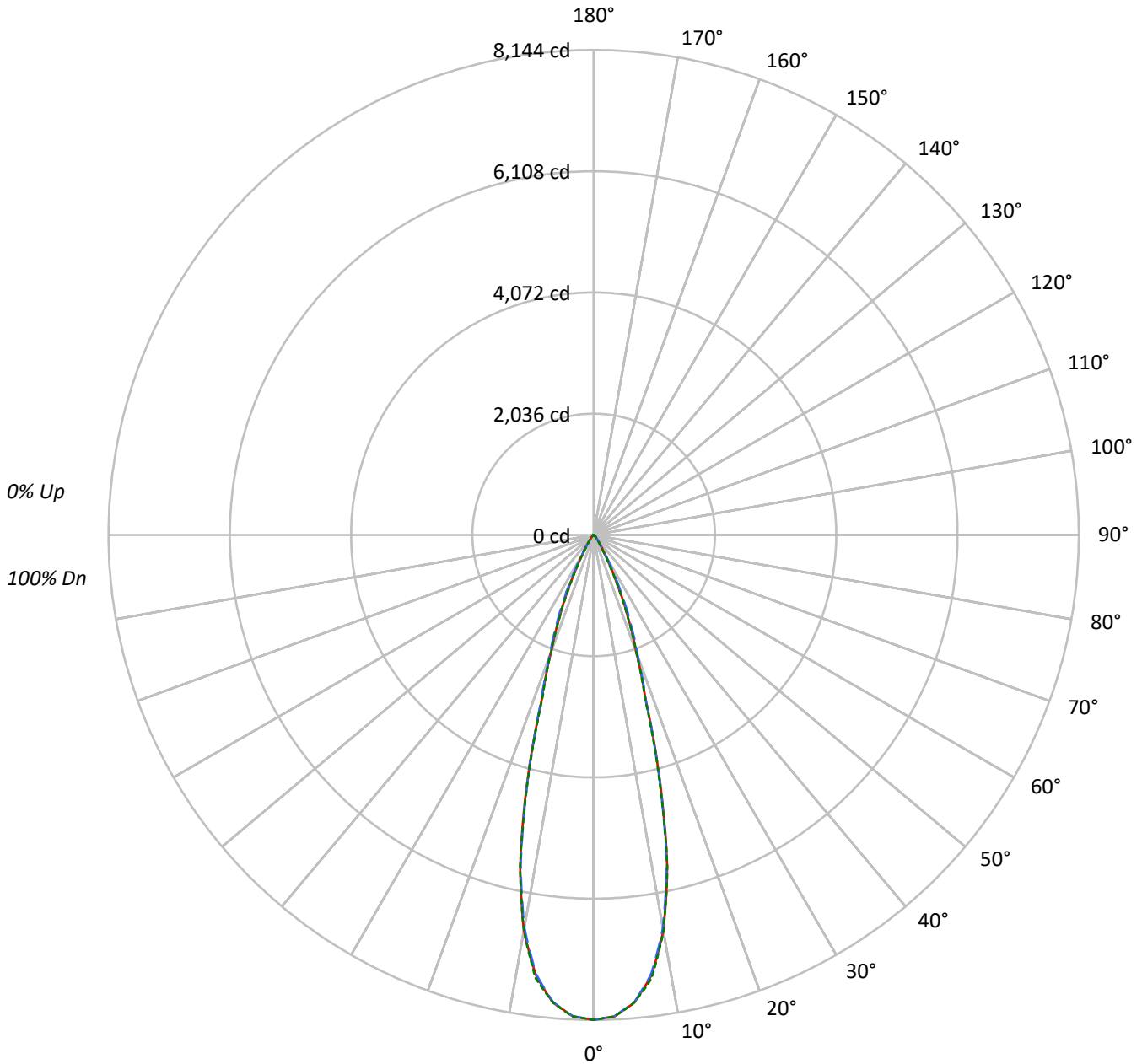


Downlight



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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	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°	623400	623400	623400
5°	605504	604797	605535
10°	524452	520760	524327
15°	342182	340343	338631
20°	170153	176531	169925
25°	85715	96652	83958
30°	34320	37396	29901
35°	15913	15240	12783
40°	6875	7634	6475
45°	4850	6019	4893
50°	1667	4382	1762
55°	961	1815	1014
60°	674	796	674
65°	435	435	435
70°	269	179	269
75°	0	118	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 6019 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	716.2	28.3
10°-20°	1153.4	45.5
20°-30°	498.4	19.7
30°-40°	113.6	4.5
40°-50°	39.0	1.5
50°-60°	9.5	0.4
60°-70°	2.5	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°	2368.0	93.5
0°-40°	2481.6	98.0
0°-60°	2530.1	99.9
0°-90°	2532.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2532.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8144	8144	8144	8144	8144	
5°	7880	7873	7871	7888	7881	717
15°	4318	4266	4295	4281	4273	1156
25°	1015	1053	1144	1026	994	486
35°	170	174	163	162	137	116
45°	45	56	56	56	45	32
55°	7	8	14	8	8	7
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8144.4	8144.4	8144.4	8144.4	8144.4
2.5°	8090.4	8084.8	8088.0	8092.0	8093.6
5°	7880.5	7872.9	7871.3	7887.6	7880.9
7.5°	7457.0	7446.2	7429.8	7467.0	7501.8
10°	6747.6	6735.7	6700.1	6717.7	6746.0
12.5°	5700.4	5661.6	5660.8	5716.8	5709.2
15°	4318.1	4266.1	4294.9	4280.9	4273.3
17.5°	2903.8	2883.8	2922.2	2910.6	2860.6
20°	2088.9	2094.1	2167.2	2130.5	2086.1
22.5°	1524.3	1543.1	1629.8	1535.0	1500.3
25°	1014.9	1053.3	1144.4	1026.4	994.1
27.5°	624.2	641.8	734.1	616.2	598.6
30°	388.3	379.5	423.1	363.1	338.3
32.5°	254.7	243.5	257.5	231.1	211.1
35°	170.3	173.9	163.1	161.9	136.8
37.5°	106.3	122.4	107.9	115.2	87.9
40°	68.8	88.8	76.4	84.4	64.8
42.5°	56.4	68.4	62.8	66.7	57.6
45°	44.8	55.6	55.6	55.6	45.2
47.5°	24.8	37.2	47.6	38.0	26.4
50°	14.0	18.8	36.8	19.6	14.8
52.5°	9.6	10.8	25.2	11.2	10.0
55°	7.2	7.6	13.6	8.0	7.6
57.5°	5.6	6.0	7.2	6.0	5.6
60°	4.4	4.4	5.2	4.8	4.4
62.5°	3.2	3.2	3.6	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4
67.5°	1.2	1.6	1.6	1.6	1.6
70°	1.2	0.8	0.8	0.8	1.2
72.5°	0.8	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.4	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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