

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: P741897

Luminaire Tested: LD4D10D010-EU4DR150210IC9030-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741897
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR150210IC9030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1062.4 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')
CIE Type: Direct

Input Watts (W): 11.7
Input Voltage (V): NR
Input Current (Ain): 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

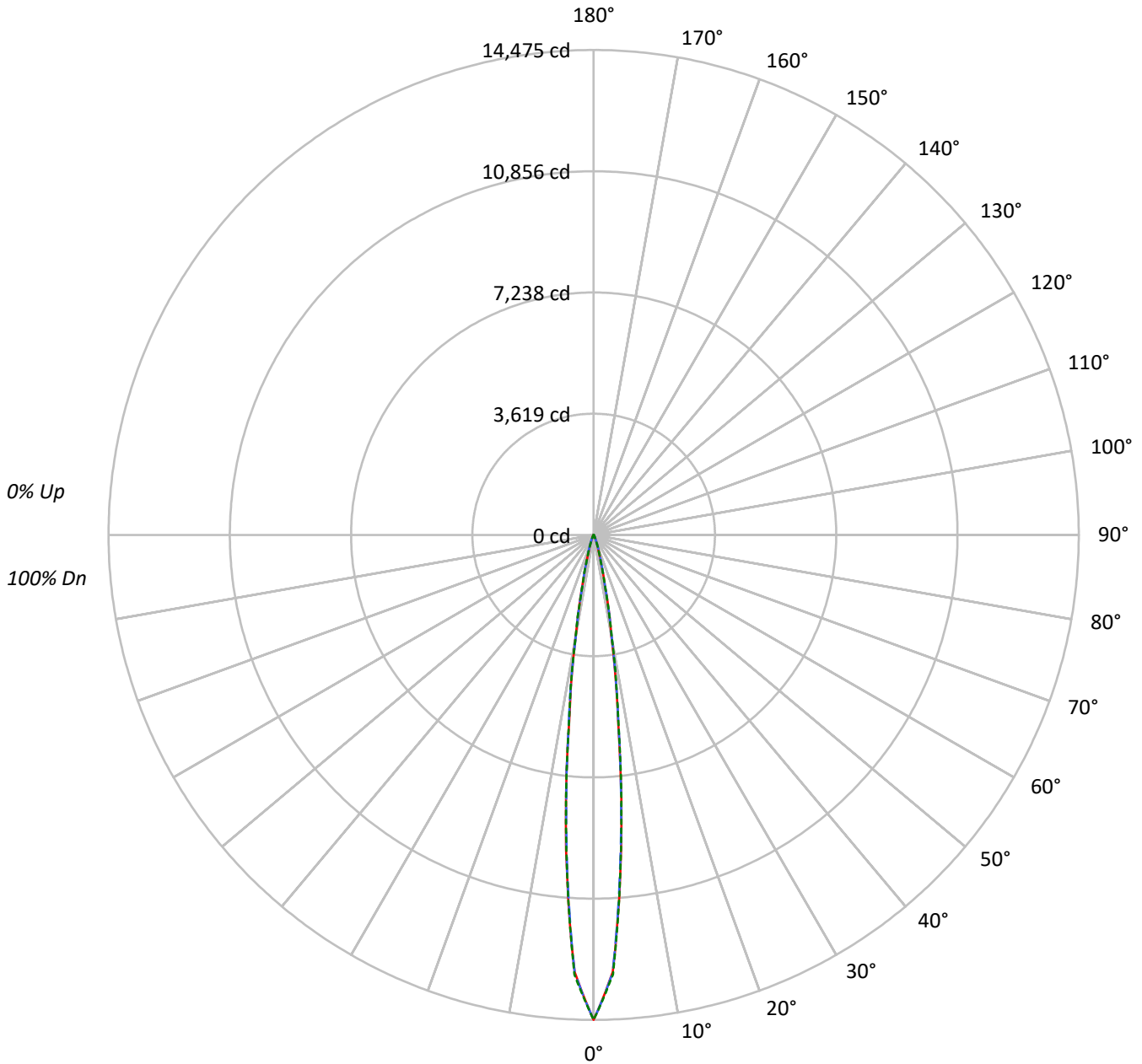


Downlight



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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1628760	1628760	1628760
5°	957141	944742	952222
10°	285661	287667	292062
15°	71058	72439	70206
20°	21258	24620	21708
25°	7494	9551	7588
30°	2756	3624	2801
35°	1380	1554	1336
40°	873	959	873
45°	644	686	644
50°	515	515	515
55°	425	425	425
60°	344	344	344
65°	264	264	264
70°	227	227	227
75°	136	136	189
80°	95	95	95
85°	50	50	50

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 686 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.1	64.9
10°-20°	283.4	26.7
20°-30°	56.3	5.3
30°-40°	14.0	1.3
40°-50°	7.4	0.7
50°-60°	5.5	0.5
60°-70°	3.9	0.4
70°-80°	2.2	0.2
80°-90°	0.7	0.1
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°	1028.8	96.8
0°-40°	1042.8	98.2
0°-60°	1055.7	99.4
0°-90°	1062.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1062.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14475	14475	14475	14475	14475	
5°	9418	9321	9296	9360	9370	688
15°	818	833	834	819	808	280
25°	96	109	123	108	97	51
35°	19	20	21	20	18	13
45°	9	9	10	9	9	7
55°	6	6	6	6	6	5
65°	4	4	4	4	4	4
75°	2	2	2	2	2	2
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14475.3	14475.3	14475.3	14475.3	14475.3
2.5°	13057.3	13068.4	13072.7	13085.5	13133.3
5°	9418.0	9321.2	9296.0	9360.4	9369.6
7.5°	5578.8	5598.5	5670.2	5686.1	5628.5
10°	3061.5	3086.6	3083.0	3105.0	3130.1
12.5°	1565.7	1546.1	1539.9	1565.1	1530.1
15°	818.1	833.4	834.0	819.3	808.3
17.5°	440.0	457.8	487.2	463.3	426.5
20°	259.8	275.8	300.9	281.3	265.3
22.5°	160.6	173.4	191.2	175.9	163.0
25°	96.2	109.1	122.6	108.5	97.4
27.5°	57.0	68.0	76.6	67.4	56.4
30°	36.8	42.9	48.4	42.3	37.4
32.5°	25.7	28.2	30.6	28.2	25.7
35°	19.0	20.2	21.4	20.2	18.4
37.5°	14.7	15.9	16.5	15.3	14.1
40°	12.3	12.9	13.5	12.9	12.3
42.5°	10.4	11.0	11.0	11.0	10.4
45°	9.2	9.2	9.8	9.2	9.2
47.5°	8.0	8.0	8.6	8.0	8.0
50°	7.4	7.4	7.4	7.4	7.4
52.5°	6.7	6.7	6.7	6.7	6.7
55°	6.1	6.1	6.1	6.1	6.1
57.5°	5.5	5.5	5.5	5.5	5.5
60°	4.9	4.9	4.9	4.9	4.9
62.5°	4.3	4.3	4.3	4.3	4.3
65°	3.7	3.7	3.7	3.7	3.7
67.5°	3.7	3.7	3.7	3.7	3.7
70°	3.1	3.1	3.1	3.1	3.1
72.5°	2.5	2.5	2.5	2.5	2.5
75°	1.8	1.8	1.8	1.8	2.5
77.5°	1.8	1.8	1.8	1.8	1.8
80°	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2
85°	0.6	0.6	0.6	0.6	0.6
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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