

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P745731

Luminaire Tested: LD4D30D010-EU4DR1515309024-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745731
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: LD4D30D010-EU4DR1515309024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2160.7 lumens
Efficiency: N/A
Efficacy: 74.5 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): 29
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

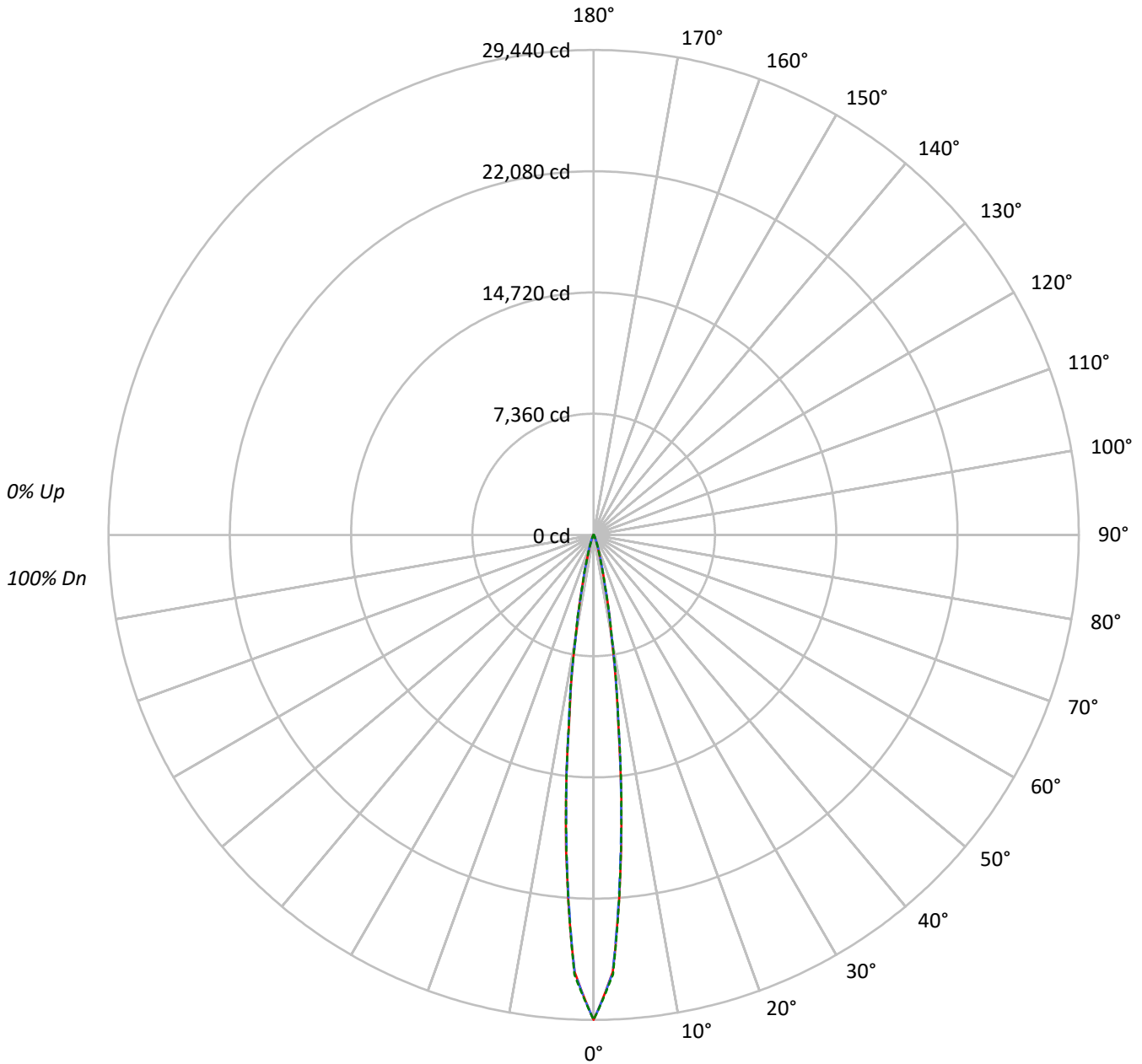


Downlight



TEST NUMBER: P745731
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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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3312565	3312565	3312565
5°	1946620	1921416	1936610
10°	580970	585048	593996
15°	144512	147327	142784
20°	43235	50067	44152
25°	15245	19421	15440
30°	5601	7376	5691
35°	2803	3166	2716
40°	1768	1946	1768
45°	1309	1393	1309
50°	1043	1043	1043
55°	870	870	870
60°	702	702	702
65°	535	535	535
70°	453	453	453
75°	280	280	378
80°	197	197	197
85°	100	100	100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1393 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1401.4	64.9
10°-20°	576.4	26.7
20°-30°	114.5	5.3
30°-40°	28.6	1.3
40°-50°	15.0	0.7
50°-60°	11.1	0.5
60°-70°	7.9	0.4
70°-80°	4.5	0.2
80°-90°	1.3	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°	2092.3	96.8
0°-40°	2120.9	98.2
0°-60°	2147.1	99.4
0°-90°	2160.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2160.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29440	29440	29440	29440	29440	
5°	19154	18957	18906	19037	19056	1399
15°	1664	1695	1696	1666	1644	570
25°	196	222	249	221	198	103
35°	39	41	44	41	37	26
45°	19	19	20	19	19	15
55°	12	12	12	12	12	11
65°	8	8	8	8	8	8
75°	4	4	4	4	5	4
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°	29439.8	29439.8	29439.8	29439.8	29439.8
2.5°	26555.9	26578.3	26587.0	26613.2	26710.4
5°	19154.2	18957.2	18906.2	19037.0	19055.7
7.5°	11346.2	11386.1	11531.9	11564.3	11447.1
10°	6226.4	6277.5	6270.1	6314.9	6366.0
12.5°	3184.3	3144.4	3131.9	3183.0	3112.0
15°	1663.8	1694.9	1696.2	1666.3	1643.9
17.5°	894.8	931.0	990.8	942.2	867.4
20°	528.4	560.8	611.9	572.0	539.6
22.5°	326.5	352.7	388.8	357.7	331.5
25°	195.7	221.8	249.3	220.6	198.2
27.5°	115.9	138.3	155.8	137.1	114.7
30°	74.8	87.2	98.5	86.0	76.0
32.5°	52.3	57.3	62.3	57.3	52.3
35°	38.6	41.1	43.6	41.1	37.4
37.5°	29.9	32.4	33.6	31.2	28.7
40°	24.9	26.2	27.4	26.2	24.9
42.5°	21.2	22.4	22.4	22.4	21.2
45°	18.7	18.7	19.9	18.7	18.7
47.5°	16.2	16.2	17.4	16.2	16.2
50°	15.0	15.0	15.0	15.0	15.0
52.5°	13.7	13.7	13.7	13.7	13.7
55°	12.5	12.5	12.5	12.5	12.5
57.5°	11.2	11.2	11.2	11.2	11.2
60°	10.0	10.0	10.0	10.0	10.0
62.5°	8.7	8.7	8.7	8.7	8.7
65°	7.5	7.5	7.5	7.5	7.5
67.5°	7.5	7.5	7.5	7.5	7.5
70°	6.2	6.2	6.2	6.2	6.2
72.5°	5.0	5.0	5.0	5.0	5.0
75°	3.7	3.7	3.7	3.7	5.0
77.5°	3.7	3.7	3.7	3.7	3.7
80°	2.5	2.5	2.5	2.5	2.5
82.5°	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report





— 0°-180° - - 45°-225° - - - - 90°-270°

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(END OF REPORT)