

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: P745755

Luminaire Tested: LD4D30D010-EU4DR1515309027-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745755
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-EU4DR1515309027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2264.1 lumens
Efficiency: N/A
Efficacy: 78.1 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



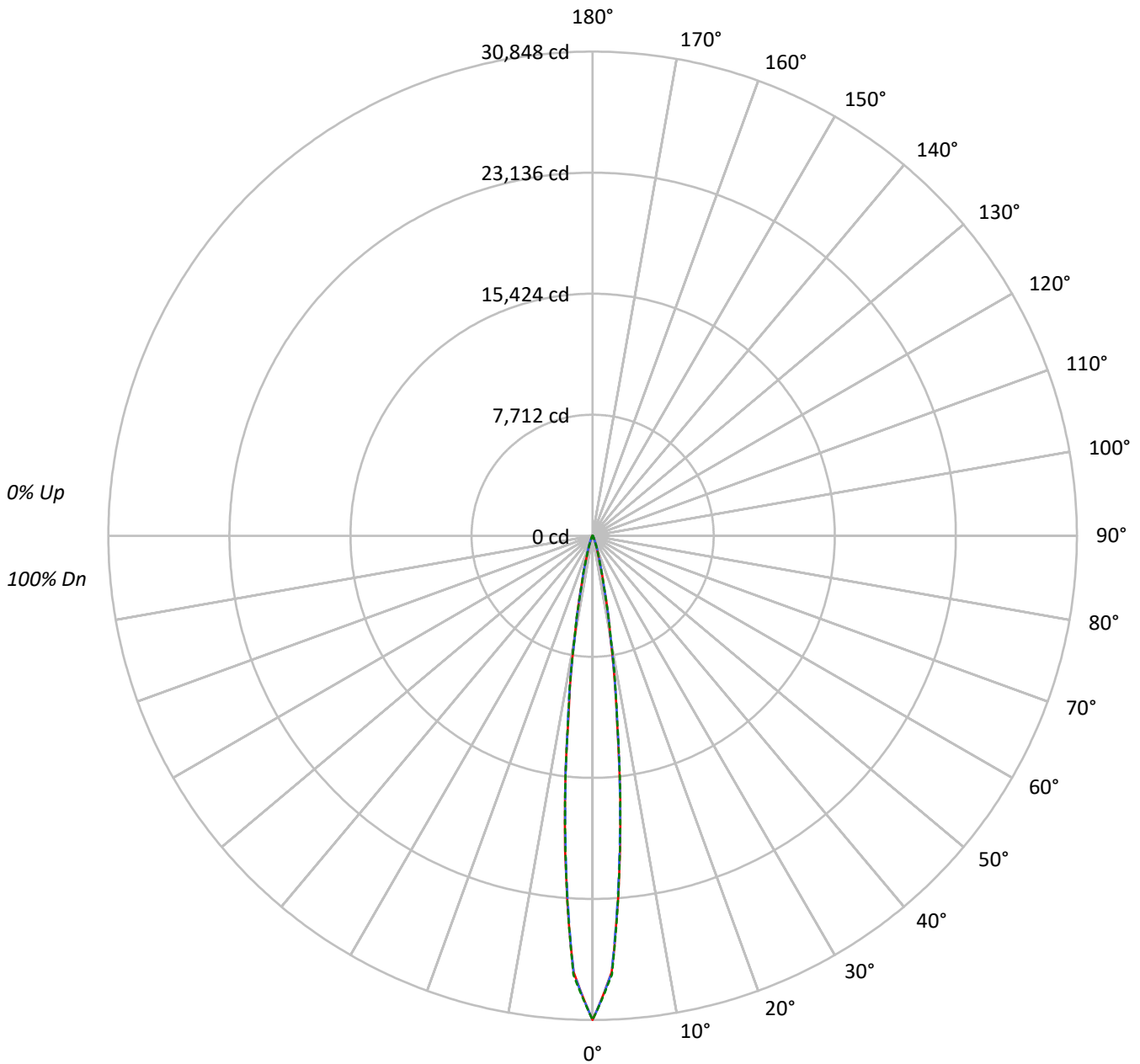
Downlight



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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°	3471038	3471038	3471038
5°	2039753	2013340	2029265
10°	608767	613031	622418
15°	151426	154371	149611
20°	45305	52465	46271
25°	15970	20348	16172
30°	5871	7728	5968
35°	2941	3319	2847
40°	1853	2038	1853
45°	1372	1463	1372
50°	1092	1092	1092
55°	912	912	912
60°	730	730	730
65°	557	557	557
70°	475	475	475
75°	295	295	393
80°	205	205	205
85°	108	108	108

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1463 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1468.4	64.9
10°-20°	604.0	26.7
20°-30°	120.0	5.3
30°-40°	29.9	1.3
40°-50°	15.7	0.7
50°-60°	11.7	0.5
60°-70°	8.2	0.4
70°-80°	4.7	0.2
80°-90°	1.4	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°	2192.4	96.8
0°-40°	2222.4	98.2
0°-60°	2249.8	99.4
0°-90°	2264.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2264.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	30848	30848	30848	30848	30848	
5°	20071	19864	19811	19948	19967	1466
15°	1743	1776	1777	1746	1722	598
25°	205	232	261	231	208	108
35°	40	43	46	43	39	27
45°	20	20	21	20	20	15
55°	13	13	13	13	13	12
65°	8	8	8	8	8	8
75°	4	4	4	4	5	5
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°	30848.2	30848.2	30848.2	30848.2	30848.2
2.5°	27826.4	27849.9	27859.0	27886.4	27988.3
5°	20070.6	19864.2	19810.7	19947.8	19967.4
7.5°	11889.0	11930.8	12083.6	12117.6	11994.8
10°	6524.3	6577.9	6570.0	6617.1	6670.6
12.5°	3336.6	3294.8	3281.8	3335.3	3260.9
15°	1743.4	1776.0	1777.3	1746.0	1722.5
17.5°	937.6	975.5	1038.2	987.3	908.9
20°	553.7	587.7	641.2	599.4	565.5
22.5°	342.1	369.6	407.4	374.8	347.4
25°	205.0	232.5	261.2	231.1	207.6
27.5°	121.4	145.0	163.2	143.7	120.1
30°	78.4	91.4	103.2	90.1	79.7
32.5°	54.8	60.1	65.3	60.1	54.8
35°	40.5	43.1	45.7	43.1	39.2
37.5°	31.3	34.0	35.3	32.6	30.0
40°	26.1	27.4	28.7	27.4	26.1
42.5°	22.2	23.5	23.5	23.5	22.2
45°	19.6	19.6	20.9	19.6	19.6
47.5°	17.0	17.0	18.3	17.0	17.0
50°	15.7	15.7	15.7	15.7	15.7
52.5°	14.4	14.4	14.4	14.4	14.4
55°	13.1	13.1	13.1	13.1	13.1
57.5°	11.8	11.8	11.8	11.8	11.8
60°	10.4	10.4	10.4	10.4	10.4
62.5°	9.1	9.1	9.1	9.1	9.1
65°	7.8	7.8	7.8	7.8	7.8
67.5°	7.8	7.8	7.8	7.8	7.8
70°	6.5	6.5	6.5	6.5	6.5
72.5°	5.2	5.2	5.2	5.2	5.2
75°	3.9	3.9	3.9	3.9	5.2
77.5°	3.9	3.9	3.9	3.9	3.9
80°	2.6	2.6	2.6	2.6	2.6
82.5°	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3
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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