

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: P745781

Luminaire Tested: LD4D30D010-EU4DR1515309035-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745781
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-EU4DR1515309035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.0 lumens
Efficiency: N/A
Efficacy: 85.1 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



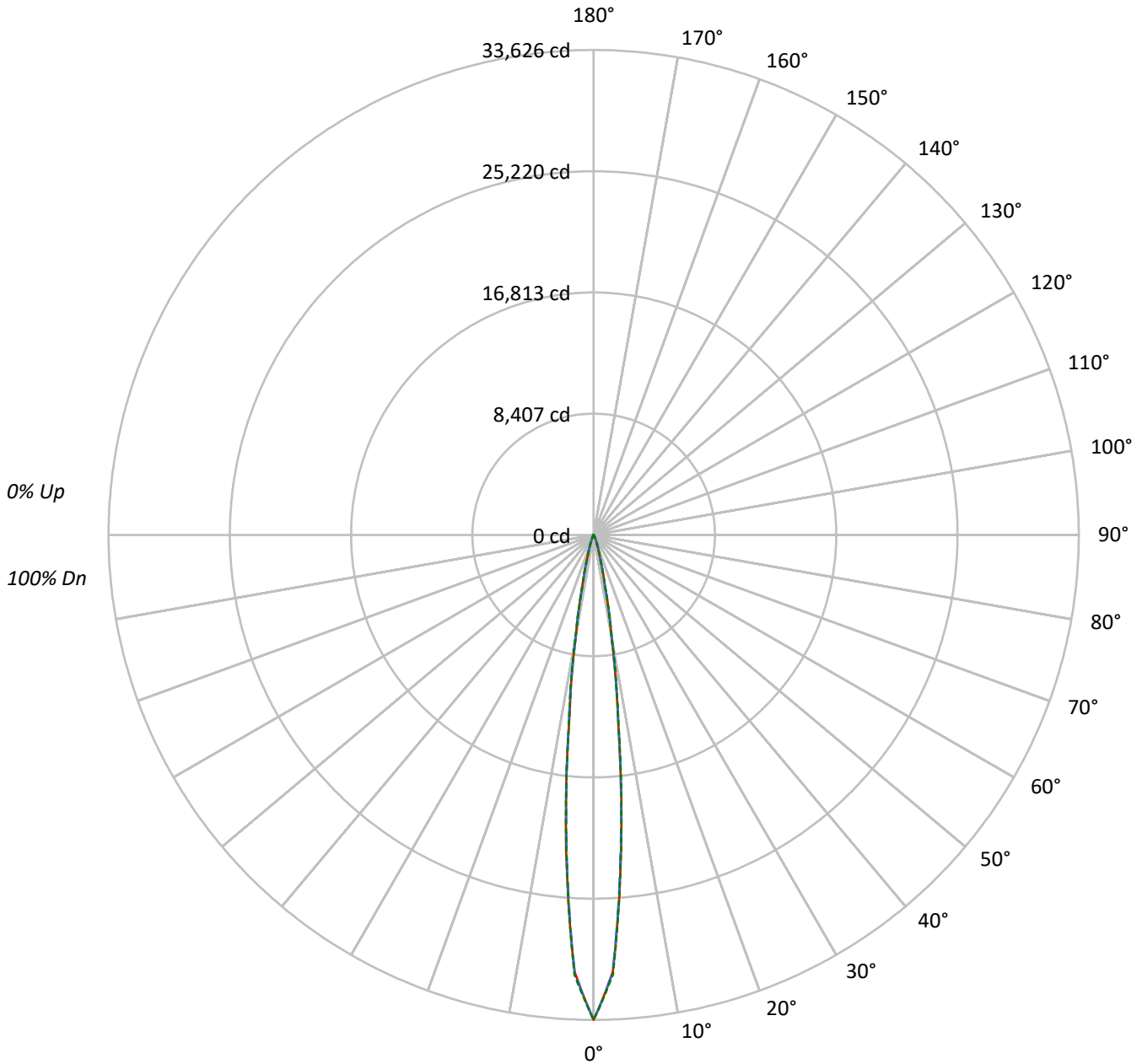
Downlight



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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°	3783596	3783596	3783596
5°	2223417	2194636	2211994
10°	663585	668241	678467
15°	165063	168276	163082
20°	49388	57186	50436
25°	17411	22178	17629
30°	6395	8424	6500
35°	3203	3616	3101
40°	2024	2223	2024
45°	1498	1596	1498
50°	1189	1189	1189
55°	988	988	988
60°	800	800	800
65°	607	607	607
70°	519	519	519
75°	325	325	431
80°	221	221	221
85°	116	116	116

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1596 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1600.7	64.9
10°-20°	658.4	26.7
20°-30°	130.8	5.3
30°-40°	32.6	1.3
40°-50°	17.2	0.7
50°-60°	12.7	0.5
60°-70°	9.0	0.4
70°-80°	5.1	0.2
80°-90°	1.5	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°	2389.8	96.8
0°-40°	2422.5	98.2
0°-60°	2452.4	99.4
0°-90°	2468.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2468.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	33626	33626	33626	33626	33626	
5°	21878	21653	21595	21744	21765	1598
15°	1900	1936	1937	1903	1878	652
25°	224	253	285	252	226	117
35°	44	47	50	47	43	30
45°	21	21	23	21	21	17
55°	14	14	14	14	14	13
65°	8	8	8	8	8	9
75°	4	4	4	4	6	5
85°	1	1	1	1	1	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	33626.0	33626.0	33626.0	33626.0	33626.0
2.5°	30332.0	30357.7	30367.6	30397.5	30508.5
5°	21877.8	21652.9	21594.6	21744.0	21765.4
7.5°	12959.6	13005.1	13171.7	13208.7	13074.9
10°	7111.8	7170.2	7161.7	7212.9	7271.3
12.5°	3637.1	3591.5	3577.3	3635.6	3554.5
15°	1900.4	1936.0	1937.4	1903.2	1877.6
17.5°	1022.1	1063.4	1131.7	1076.2	990.8
20°	603.6	640.6	698.9	653.4	616.4
22.5°	373.0	402.9	444.1	408.5	378.7
25°	223.5	253.4	284.7	252.0	226.3
27.5°	132.4	158.0	177.9	156.6	131.0
30°	85.4	99.6	112.5	98.2	86.8
32.5°	59.8	65.5	71.2	65.5	59.8
35°	44.1	47.0	49.8	47.0	42.7
37.5°	34.2	37.0	38.4	35.6	32.7
40°	28.5	29.9	31.3	29.9	28.5
42.5°	24.2	25.6	25.6	25.6	24.2
45°	21.4	21.4	22.8	21.4	21.4
47.5°	18.5	18.5	19.9	18.5	18.5
50°	17.1	17.1	17.1	17.1	17.1
52.5°	15.7	15.7	15.7	15.7	15.7
55°	14.2	14.2	14.2	14.2	14.2
57.5°	12.8	12.8	12.8	12.8	12.8
60°	11.4	11.4	11.4	11.4	11.4
62.5°	10.0	10.0	10.0	10.0	10.0
65°	8.5	8.5	8.5	8.5	8.5
67.5°	8.5	8.5	8.5	8.5	8.5
70°	7.1	7.1	7.1	7.1	7.1
72.5°	5.7	5.7	5.7	5.7	5.7
75°	4.3	4.3	4.3	4.3	5.7
77.5°	4.3	4.3	4.3	4.3	4.3
80°	2.8	2.8	2.8	2.8	2.8
82.5°	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4
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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