

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: P745773

Luminaire Tested: LD4D30D010-EU4DR1515309035-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745773
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-EU4DR1515309035-4LBDP1B
Description: 4 INCH ROUND 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: 2668.4 lumens
Efficiency: N/A
Efficacy: 92.0 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 (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

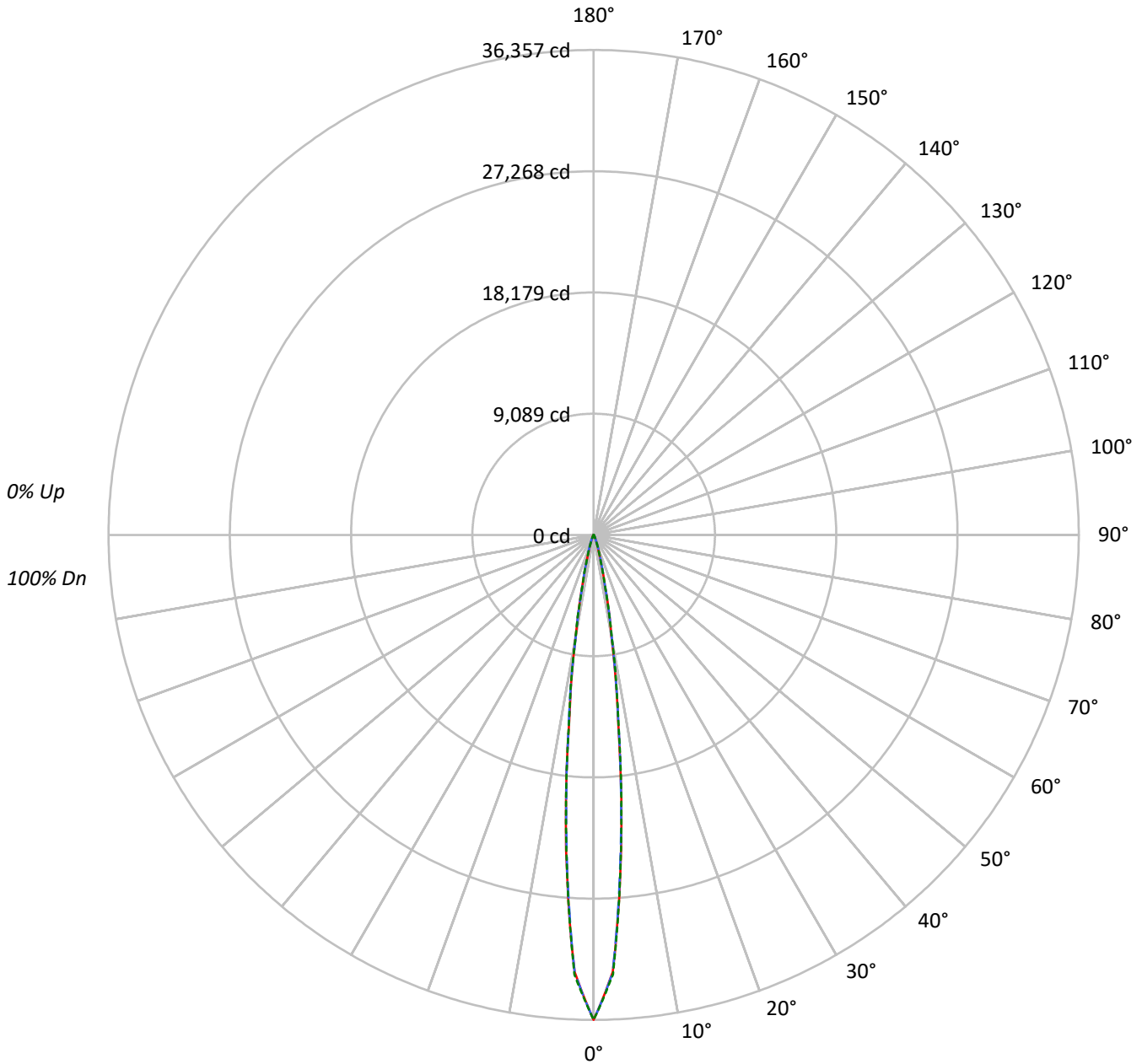


Downlight



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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	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°	4090877	4090877	4090877
5°	2403991	2372862	2391633
10°	717479	722509	733566
15°	178465	181939	176328
20°	53398	61833	54527
25°	18821	23978	19062
30°	6912	9106	7031
35°	3464	3914	3355
40°	2187	2407	2187
45°	1617	1722	1617
50°	1286	1286	1286
55°	1072	1072	1072
60°	864	864	864
65°	657	657	657
70°	563	563	563
75°	348	348	469
80°	244	244	244
85°	125	125	125

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1722 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1730.7	64.9
10°-20°	711.9	26.7
20°-30°	141.4	5.3
30°-40°	35.3	1.3
40°-50°	18.6	0.7
50°-60°	13.8	0.5
60°-70°	9.7	0.4
70°-80°	5.5	0.2
80°-90°	1.7	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°	2583.9	96.8
0°-40°	2619.2	98.2
0°-60°	2651.5	99.4
0°-90°	2668.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2668.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36357	36357	36357	36357	36357	
5°	23655	23411	23348	23510	23533	1727
15°	2055	2093	2095	2058	2030	704
25°	242	274	308	272	245	127
35°	48	51	54	51	46	32
45°	23	23	25	23	23	18
55°	15	15	15	15	15	14
65°	9	9	9	9	9	10
75°	5	5	5	5	6	5
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	36356.9	36356.9	36356.9	36356.9	36356.9
2.5°	32795.4	32823.1	32833.8	32866.2	32986.2
5°	23654.6	23411.4	23348.3	23509.9	23533.0
7.5°	14012.1	14061.3	14241.4	14281.4	14136.7
10°	7689.4	7752.5	7743.3	7798.7	7861.8
12.5°	3932.4	3883.2	3867.8	3930.9	3843.2
15°	2054.7	2093.2	2094.7	2057.8	2030.1
17.5°	1105.1	1149.7	1223.6	1163.6	1071.2
20°	652.6	692.6	755.7	706.5	666.4
22.5°	403.2	435.6	480.2	441.7	409.4
25°	241.6	274.0	307.8	272.4	244.7
27.5°	143.1	170.8	192.4	169.3	141.6
30°	92.3	107.7	121.6	106.2	93.9
32.5°	64.6	70.8	77.0	70.8	64.6
35°	47.7	50.8	53.9	50.8	46.2
37.5°	36.9	40.0	41.6	38.5	35.4
40°	30.8	32.3	33.9	32.3	30.8
42.5°	26.2	27.7	27.7	27.7	26.2
45°	23.1	23.1	24.6	23.1	23.1
47.5°	20.0	20.0	21.5	20.0	20.0
50°	18.5	18.5	18.5	18.5	18.5
52.5°	16.9	16.9	16.9	16.9	16.9
55°	15.4	15.4	15.4	15.4	15.4
57.5°	13.9	13.9	13.9	13.9	13.9
60°	12.3	12.3	12.3	12.3	12.3
62.5°	10.8	10.8	10.8	10.8	10.8
65°	9.2	9.2	9.2	9.2	9.2
67.5°	9.2	9.2	9.2	9.2	9.2
70°	7.7	7.7	7.7	7.7	7.7
72.5°	6.2	6.2	6.2	6.2	6.2
75°	4.6	4.6	4.6	4.6	4.6
77.5°	4.6	4.6	4.6	4.6	4.6
80°	3.1	3.1	3.1	3.1	3.1
82.5°	3.1	3.1	3.1	3.1	3.1
85°	1.5	1.5	1.5	1.5	1.5
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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