

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: P745805

Luminaire Tested: LD4D30D010-EU4DR1515309050-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P745805
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-EU4DR1515309050-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3204.9 lumens
Efficiency: N/A
Efficacy: 110.5 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

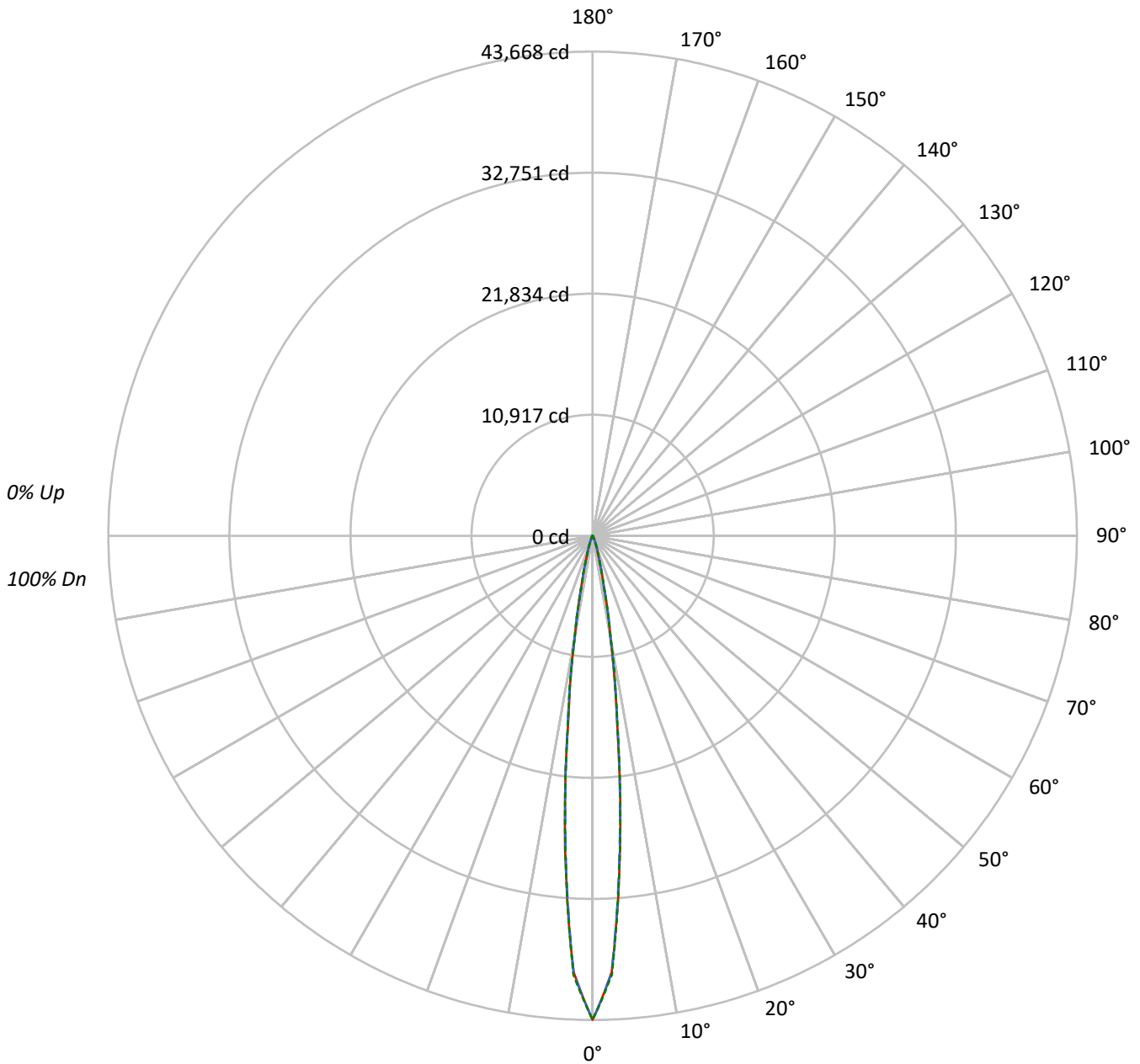


Downlight



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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°	4913465	4913465	4913465
5°	2887389	2850000	2872541
10°	861752	867789	881066
15°	214354	218523	211783
20°	64133	74271	65491
25°	22607	28800	22895
30°	8304	10933	8447
35°	4161	4698	4030
40°	2628	2890	2628
45°	1939	2072	1939
50°	1544	1544	1544
55°	1288	1288	1288
60°	1039	1039	1039
65°	792	792	792
70°	673	673	673
75°	416	416	559
80°	292	292	292
85°	149	149	149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 2072 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2078.7	64.9
10°-20°	855.0	26.7
20°-30°	169.8	5.3
30°-40°	42.4	1.3
40°-50°	22.3	0.7
50°-60°	16.5	0.5
60°-70°	11.7	0.4
70°-80°	6.6	0.2
80°-90°	2.0	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°	3103.5	96.8
0°-40°	3145.9	98.2
0°-60°	3184.7	99.4
0°-90°	3204.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3204.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	43668	43668	43668	43668	43668	
5°	28411	28119	28043	28237	28265	2075
15°	2468	2514	2516	2472	2438	846
25°	290	329	370	327	294	152
35°	57	61	65	61	56	39
45°	28	28	30	28	28	22
55°	18	18	18	18	18	17
65°	11	11	11	11	11	12
75°	6	6	6	6	7	7
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°	43667.5	43667.5	43667.5	43667.5	43667.5
2.5°	39389.9	39423.2	39436.1	39474.9	39619.1
5°	28411.1	28119.0	28043.2	28237.3	28265.0
7.5°	16829.6	16888.8	17105.1	17153.1	16979.4
10°	9235.6	9311.4	9300.3	9366.8	9442.6
12.5°	4723.2	4664.0	4645.5	4721.3	4615.9
15°	2467.9	2514.1	2515.9	2471.6	2438.3
17.5°	1327.3	1380.9	1469.6	1397.5	1286.6
20°	783.8	831.9	907.7	848.5	800.4
22.5°	484.3	523.2	576.8	530.5	491.7
25°	290.2	329.1	369.7	327.2	293.9
27.5°	171.9	205.2	231.1	203.3	170.1
30°	110.9	129.4	146.0	127.6	112.8
32.5°	77.6	85.0	92.4	85.0	77.6
35°	57.3	61.0	64.7	61.0	55.5
37.5°	44.4	48.1	49.9	46.2	42.5
40°	37.0	38.8	40.7	38.8	37.0
42.5°	31.4	33.3	33.3	33.3	31.4
45°	27.7	27.7	29.6	27.7	27.7
47.5°	24.0	24.0	25.9	24.0	24.0
50°	22.2	22.2	22.2	22.2	22.2
52.5°	20.3	20.3	20.3	20.3	20.3
55°	18.5	18.5	18.5	18.5	18.5
57.5°	16.6	16.6	16.6	16.6	16.6
60°	14.8	14.8	14.8	14.8	14.8
62.5°	12.9	12.9	12.9	12.9	12.9
65°	11.1	11.1	11.1	11.1	11.1
67.5°	11.1	11.1	11.1	11.1	11.1
70°	9.2	9.2	9.2	9.2	9.2
72.5°	7.4	7.4	7.4	7.4	7.4
75°	5.5	5.5	5.5	5.5	7.4
77.5°	5.5	5.5	5.5	5.5	5.5
80°	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7
85°	1.8	1.8	1.8	1.8	1.8
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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