

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: P744104

Luminaire Tested: LD4D20D010-EU4DR3020359024-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR3020359024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1193.0 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
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



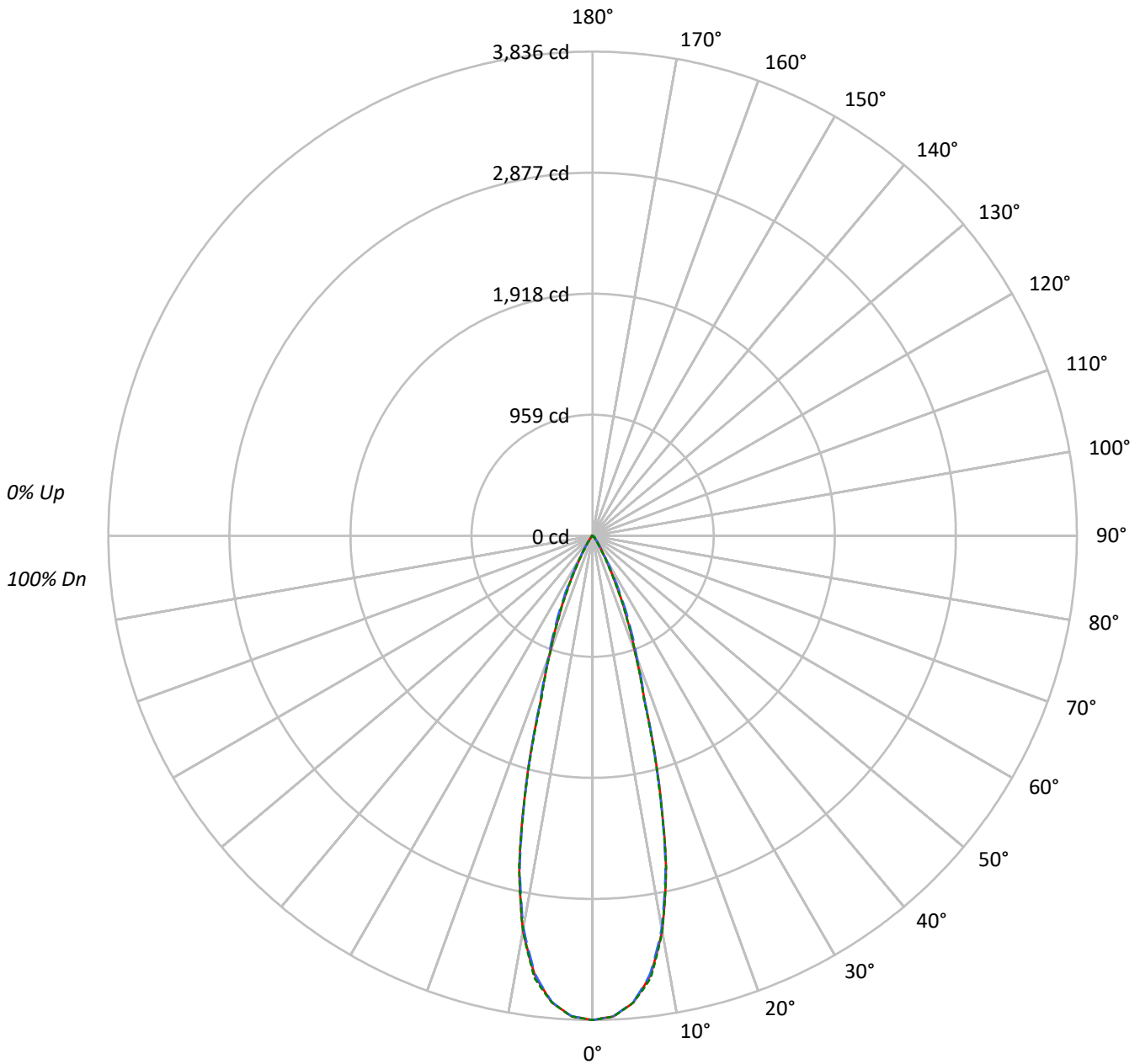
Downlight



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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	293620	293620	293620
5°	285191	284853	285207
10°	247023	245274	246961
15°	161166	160302	159494
20°	80144	83150	80038
25°	40370	45522	39542
30°	16166	17615	14080
35°	7494	7176	6018
40°	3237	3597	3048
45°	2284	2836	2306
50°	786	2060	834
55°	454	854	480
60°	321	383	321
65°	199	199	199
70°	134	90	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 2836 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.3	28.3
10°-20°	543.3	45.5
20°-30°	234.8	19.7
30°-40°	53.5	4.5
40°-50°	18.4	1.5
50°-60°	4.5	0.4
60°-70°	1.1	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1115.3	93.5
0°-40°	1168.8	98.0
0°-60°	1191.7	99.9
0°-90°	1193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3836	3836	3836	3836	3836	
5°	3712	3708	3707	3715	3712	338
15°	2034	2009	2023	2016	2013	545
25°	478	496	539	484	468	229
35°	80	82	77	76	64	54
45°	21	26	26	26	21	15
55°	3	4	6	4	4	3
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3836.0	3836.0	3836.0	3836.0	3836.0
2.5°	3810.6	3807.9	3809.4	3811.3	3812.1
5°	3711.7	3708.1	3707.3	3715.1	3711.9
7.5°	3512.2	3507.1	3499.4	3516.9	3533.3
10°	3178.2	3172.5	3155.7	3164.0	3177.4
12.5°	2684.9	2666.6	2666.2	2692.6	2689.0
15°	2033.8	2009.3	2022.9	2016.3	2012.7
17.5°	1367.7	1358.2	1376.3	1370.9	1347.4
20°	983.9	986.3	1020.8	1003.5	982.6
22.5°	717.9	726.8	767.6	723.0	706.6
25°	478.0	496.1	539.0	483.5	468.2
27.5°	294.0	302.3	345.8	290.2	281.9
30°	182.9	178.7	199.3	171.0	159.3
32.5°	120.0	114.7	121.3	108.9	99.5
35°	80.2	81.9	76.8	76.3	64.4
37.5°	50.1	57.6	50.9	54.3	41.4
40°	32.4	41.8	36.0	39.8	30.5
42.5°	26.5	32.2	29.6	31.5	27.1
45°	21.1	26.2	26.2	26.2	21.3
47.5°	11.7	17.5	22.4	17.9	12.4
50°	6.6	8.8	17.3	9.2	7.0
52.5°	4.5	5.1	11.9	5.3	4.7
55°	3.4	3.6	6.4	3.8	3.6
57.5°	2.6	2.8	3.4	2.8	2.6
60°	2.1	2.1	2.5	2.2	2.1
62.5°	1.5	1.5	1.7	1.5	1.5
65°	1.1	1.1	1.1	1.1	1.1
67.5°	0.6	0.7	0.7	0.7	0.7
70°	0.6	0.4	0.4	0.4	0.6
72.5°	0.4	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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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