

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: P741998

Luminaire Tested: LD4D10D010-EU4DR200210IC9040-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P741998
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D10D010-EU4DR200210IC9040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1206.3 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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



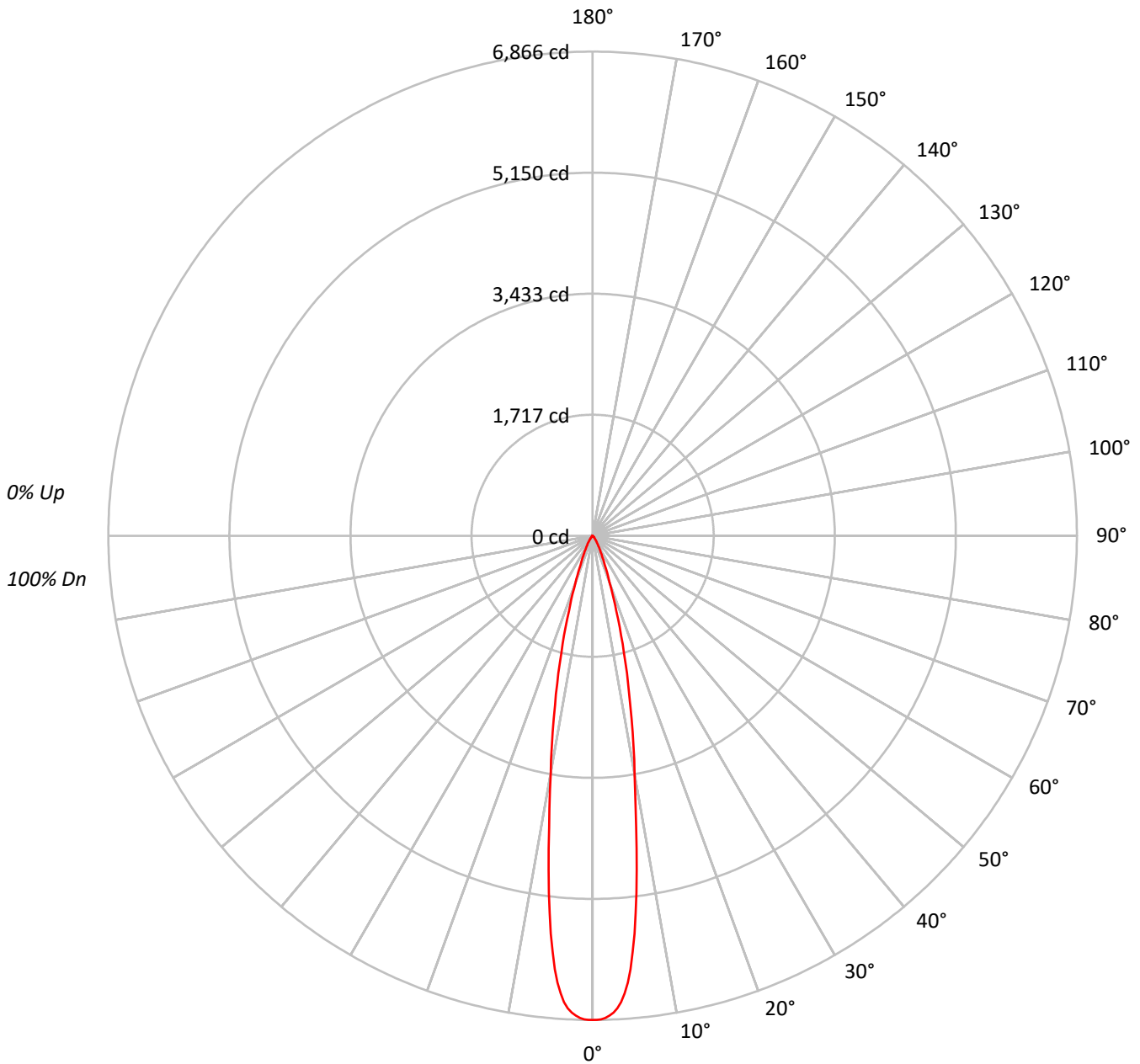
Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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	100	100	100
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97	97
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	91	91
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	88	88
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	85	85
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	83	83
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	81	81
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79	79
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	77	77
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	75	75

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	750184
5°	676813
10°	379869
15°	193087
20°	81751
25°	37734
30°	19984
35°	10764
40°	5762
45°	3399
50°	1972
55°	1048
60°	677
65°	465
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3399 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	488.9	40.5
10°-20°	481.4	39.9
20°-30°	157.3	13.0
30°-40°	53.5	4.4
40°-50°	18.0	1.5
50°-60°	5.4	0.4
60°-70°	1.8	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°	1127.5	93.5
0°-40°	1181.0	97.9
0°-60°	1204.4	99.8
0°-90°	1206.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1206.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6866	
5°	6171	489
15°	1707	481
25°	313	157
35°	81	54
45°	22	18
55°	6	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6866.0
0.5°	6866.0
1°	6857.5
1.5°	6840.4
2°	6809.2
2.5°	6767.6
3°	6708.9
3.5°	6627.0
4°	6505.3
4.5°	6357.4
5°	6170.9
5.5°	5925.7
6°	5674.4
6.5°	5386.5
7°	5104.6
7.5°	4774.4
8°	4479.7
8.5°	4183.2
9°	3909.3
9.5°	3658.0
10°	3423.9
12.5°	2458.4
15°	1707.0
17.5°	1115.2
20°	703.1
22.5°	455.5
25°	313.0
27.5°	220.1
30°	158.4
32.5°	113.7
35°	80.7
37.5°	56.2
40°	40.4
42.5°	29.3
45°	22.0
47.5°	17.1
50°	11.6
52.5°	7.3
55°	5.5
57.5°	4.3
60°	3.1
62.5°	2.4
65°	1.8



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CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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67.5°		1.2
70°		0.6

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(END OF REPORT)