

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: P744631

Luminaire Tested: LD4D20D010-EU4DR6020359050-4LBDP1LI

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6020359050-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2081.5 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' 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

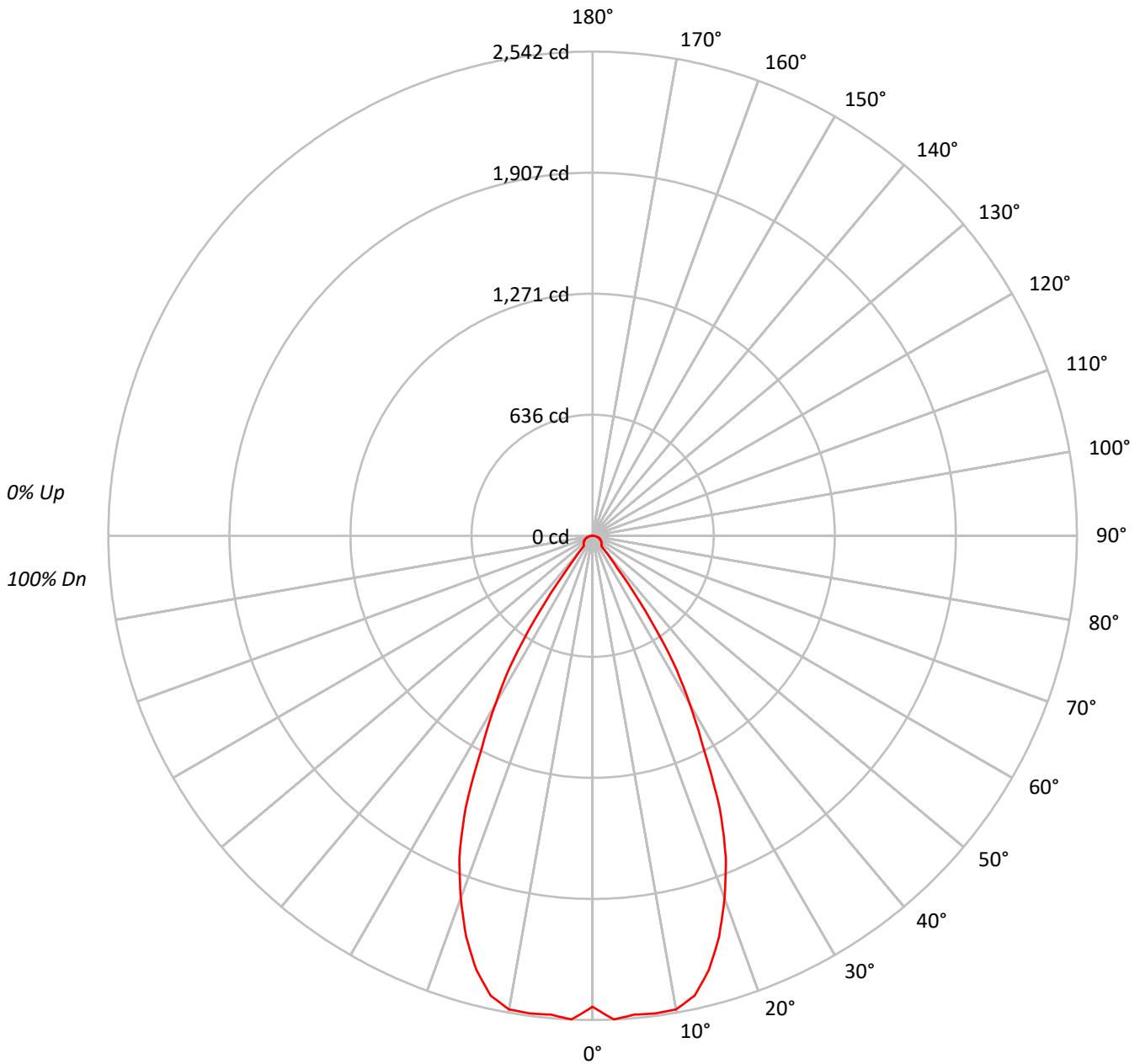


Downlight



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	270114
5°	276751
10°	280095
15°	266827
20°	235255
25°	190285
30°	128712
35°	64504
40°	10455
45°	10245
50°	10454
55°	10591
60°	10882
65°	11143
70°	11405
75°	11525
80°	11137
85°	9277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 11525 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	11.6
10°-20°	652.5	31.3
20°-30°	702.0	33.7
30°-40°	305.2	14.7
40°-50°	51.3	2.5
50°-60°	49.8	2.4
60°-70°	42.6	2.0
70°-80°	28.5	1.4
80°-90°	8.5	0.4
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°	1595.7	76.7
0°-40°	1900.8	91.3
0°-60°	2001.9	96.2
0°-90°	2081.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2081.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2472	
5°	2523	241
15°	2359	652
25°	1578	702
35°	484	305
45°	66	51
55°	56	50
65°	43	43
75°	27	28
85°	7	9
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2472.2
2.5°	2541.6
5°	2523.3
7.5°	2529.1
10°	2524.6
12.5°	2472.5
15°	2358.9
17.5°	2206.4
20°	2023.3
22.5°	1827.4
25°	1578.4
27.5°	1262.4
30°	1020.2
32.5°	786.3
35°	483.6
37.5°	206.9
40°	73.3
42.5°	67.6
45°	66.3
47.5°	64.0
50°	61.5
52.5°	58.6
55°	55.6
57.5°	52.8
60°	49.8
62.5°	46.6
65°	43.1
67.5°	39.6
70°	35.7
72.5°	31.5
75°	27.3
77.5°	22.5
80°	17.7
82.5°	12.5
85°	7.4
87.5°	2.6
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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(END OF REPORT)