

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: P781696

Luminaire Tested: LER4D50D010-EC4DR2540509035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-4)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR2540509035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4306.2 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 0.42 / 0.42 / 0.45
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

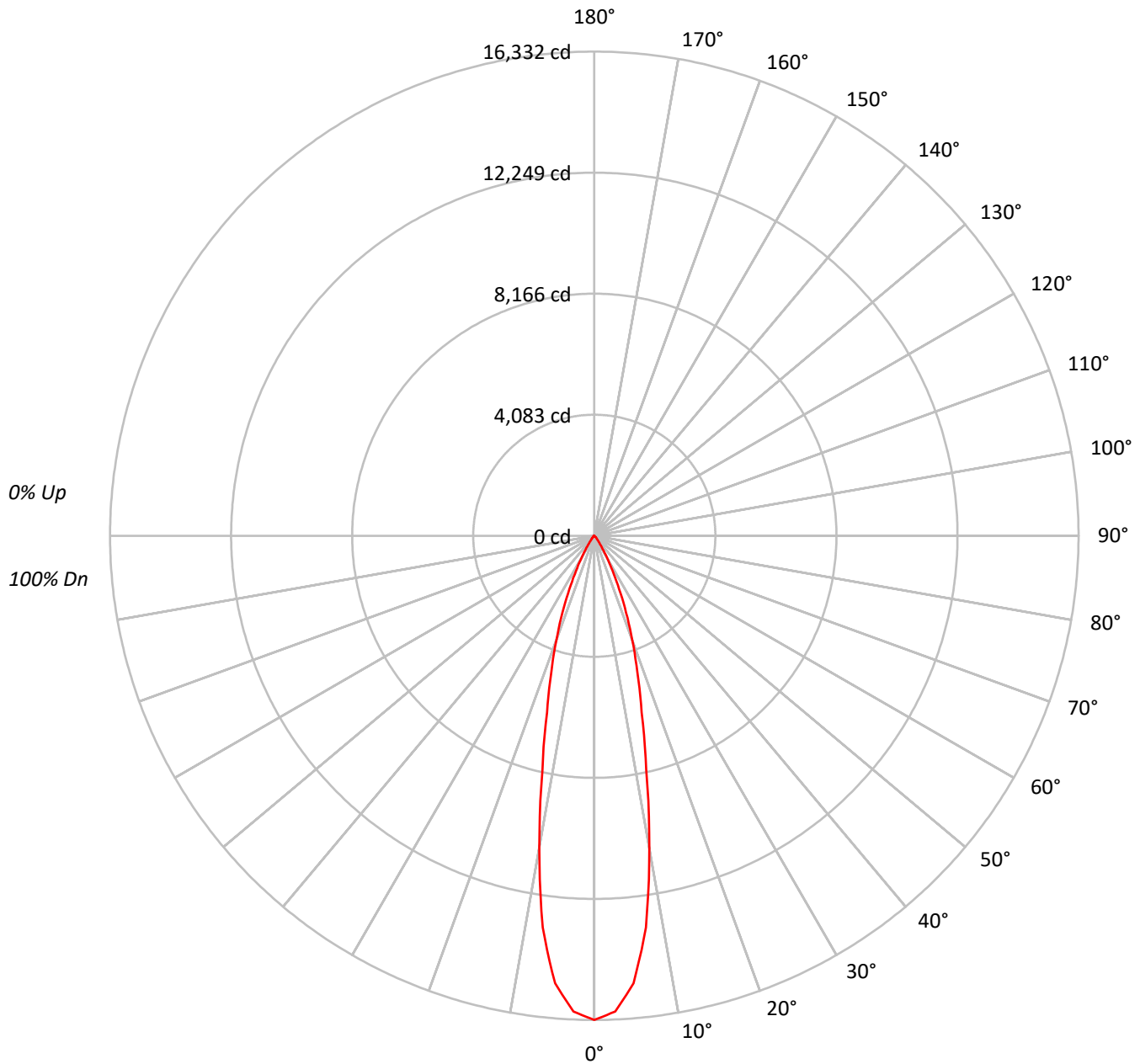


Downlight

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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	112	110	109	107	106	105	104		103	102	101		99
2	111	107	104	101	109	105	102	100	102	100	98		99	97	96		97
3	107	102	98	95	105	101	97	94	98	95	93		96	93	91		94
4	103	97	93	90	102	96	93	90	94	91	89		93	90	88		91
5	100	93	89	86	98	93	89	86	91	87	85		89	86	84		88
6	97	90	85	82	95	89	85	82	88	84	81		87	83	81		85
7	93	87	82	79	92	86	82	79	85	81	78		84	80	78		83
8	91	84	79	76	90	83	79	76	82	78	76		81	78	75		80
9	88	81	76	73	87	80	76	73	80	76	73		79	75	73		78
10	85	78	74	71	85	78	74	71	77	73	71		76	73	71		76

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1784490
5°	1662018
10°	1185561
15°	698248
20°	434465
25°	238435
30°	109043
35°	41295
40°	18699
45°	11249
50°	4674
55°	3010
60°	2098
65°	1422
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11249 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1302.3	30.2
10°-20°	1763.9	41.0
20°-30°	933.4	21.7
30°-40°	230.4	5.4
40°-50°	56.2	1.3
50°-60°	14.8	0.3
60°-70°	5.0	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°	3999.7	92.9
0°-40°	4230.1	98.2
0°-60°	4301.1	99.9
0°-90°	4306.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4306.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	16332	
5°	15154	###
15°	6173	1764
25°	1978	933
35°	310	230
45°	73	56
55°	16	15
65°	6	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	16332.4
2.5°	16063.9
5°	15153.6
7.5°	13324.8
10°	10685.9
12.5°	8078.0
15°	6172.9
17.5°	4810.9
20°	3736.6
22.5°	2802.3
25°	1977.8
27.5°	1326.3
30°	864.3
32.5°	525.9
35°	309.6
37.5°	189.5
40°	131.1
42.5°	100.2
45°	72.8
47.5°	43.9
50°	27.5
52.5°	19.9
55°	15.8
57.5°	12.4
60°	9.6
62.5°	7.6
65°	5.5
67.5°	2.1
70°	0.7
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



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— 0°-180°







(END OF REPORT)