

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: P752199

Luminaire Tested: LD4D70BD010-EU4DR2570959050-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752199
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: LD4D70BD010-EU4DR2570959050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 25° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6362.8 lumens
Efficiency: N/A
Efficacy: 95.5 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): 66.6
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

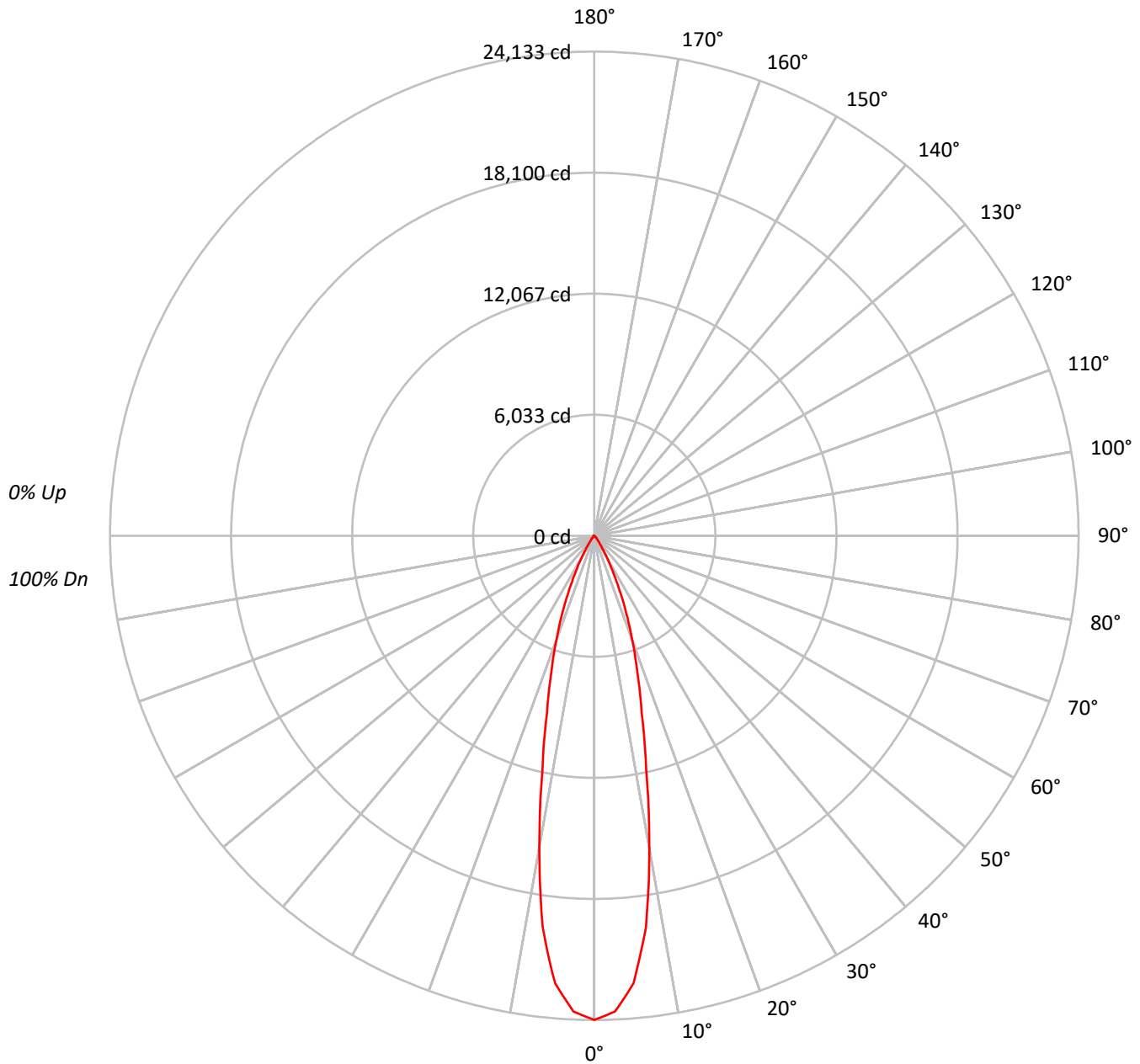


Downlight

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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°	2636746
5°	2455792
10°	1751786
15°	1031734
20°	641954
25°	352313
30°	161123
35°	61023
40°	27627
45°	16611
50°	6901
55°	4438
60°	3103
65°	2094
70°	319
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 16611 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1924.3	30.2
10°-20°	2606.3	41.0
20°-30°	1379.2	21.7
30°-40°	340.5	5.4
40°-50°	83.1	1.3
50°-60°	21.9	0.3
60°-70°	7.3	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°	5909.9	92.9
0°-40°	6250.4	98.2
0°-60°	6355.3	99.9
0°-90°	6362.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6362.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	24133	
5°	22391	###
15°	9121	2606
25°	2922	1379
35°	458	340
45°	108	83
55°	23	22
65°	8	7
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	24132.6
2.5°	23735.9
5°	22390.9
7.5°	19688.7
10°	15789.5
12.5°	11935.9
15°	9121.1
17.5°	7108.6
20°	5521.1
22.5°	4140.6
25°	2922.4
27.5°	1959.7
30°	1277.1
32.5°	777.0
35°	457.5
37.5°	280.0
40°	193.7
42.5°	148.1
45°	107.5
47.5°	64.9
50°	40.6
52.5°	29.4
55°	23.3
57.5°	18.3
60°	14.2
62.5°	11.2
65°	8.1
67.5°	3.0
70°	1.0
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



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— 0°-180°







(END OF REPORT)