

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: P752875

Luminaire Tested: LD4D70BD010-EU4DR7070959035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P752875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-76)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR7070959035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6779.2 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.1 / 1.04
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

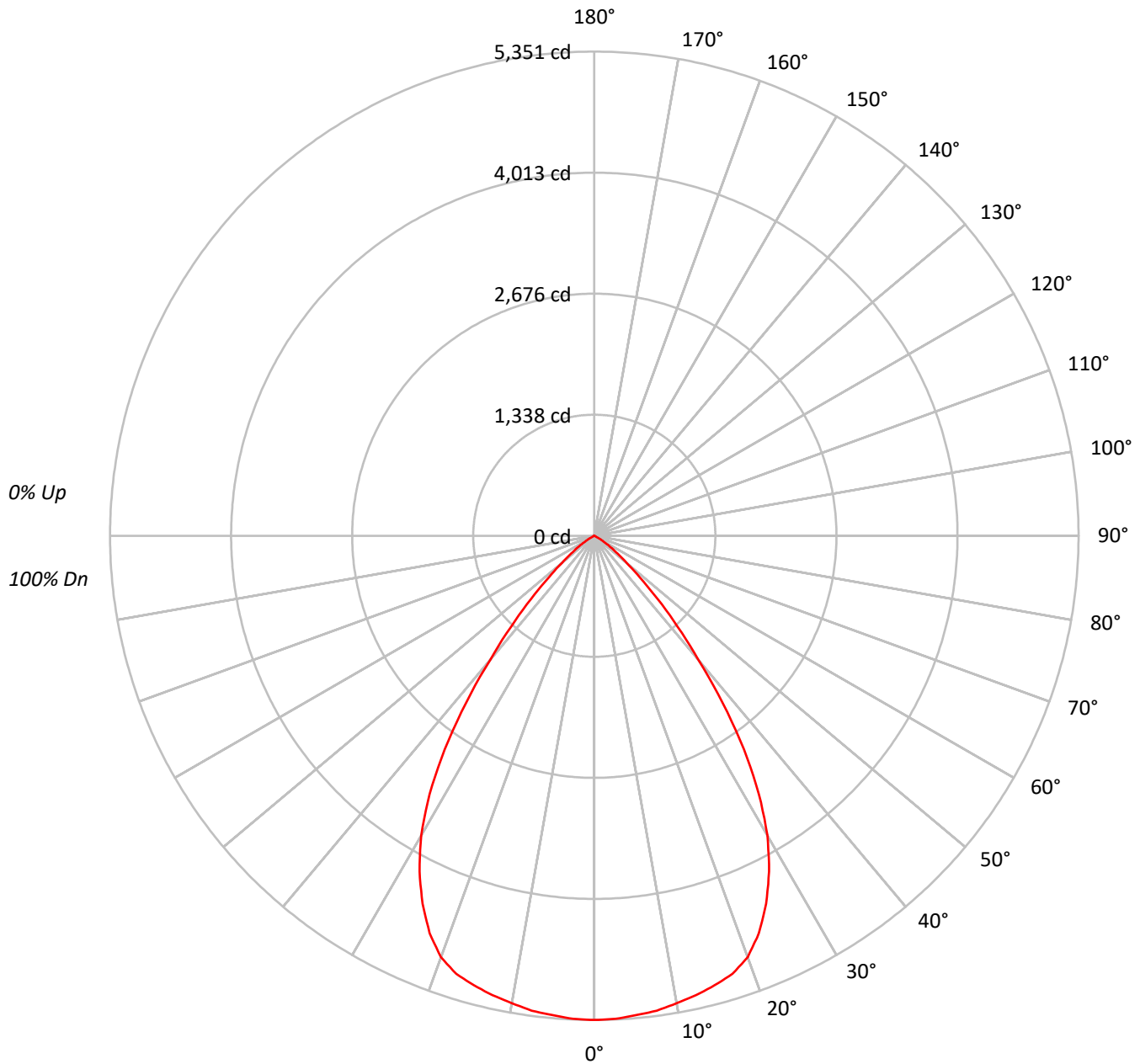


Downlight

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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					0
RW	70	50	30	10	70	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			100
1	113	110	107	105	111	108	106	103		104	102	100			100	99	97			93
2	107	102	97	94	105	100	96	92		97	93	90			94	91	88			85
3	101	94	88	84	99	92	87	83		90	85	82			87	84	81			78
4	95	87	81	76	93	86	80	76		83	78	75			81	77	74			71
5	89	80	74	69	88	79	73	69		78	72	68			76	71	68			65
6	84	75	68	63	83	74	68	63		72	67	63			71	66	62			60
7	80	69	63	58	78	69	62	58		67	62	58			66	61	57			56
8	75	65	58	54	74	64	58	54		63	57	53			62	57	53			51
9	71	61	54	50	70	60	54	50		59	53	50			58	53	49			48
10	67	57	50	46	66	56	50	46		55	50	46			55	50	46			44

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	584622
5°	583169
10°	581902
15°	581739
20°	576051
25°	541127
30°	482411
35°	384636
40°	255393
45°	152695
50°	79159
55°	41603
60°	14728
65°	259
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 152695 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.6	7.5
10°-20°	1450.2	21.4
20°-30°	2045.8	30.2
30°-40°	1766.1	26.1
40°-50°	790.9	11.7
50°-60°	207.1	3.1
60°-70°	13.5	0.2
70°-80°	0.0	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°	4001.7	59.0
0°-40°	5767.8	85.1
0°-60°	6765.7	99.8
0°-90°	6779.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6779.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5351	
5°	5317	506
15°	5143	1450
25°	4489	2046
35°	2884	1766
45°	988	791
55°	218	207
65°	1	14
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5350.7
2.5°	5345.0
5°	5317.1
7.5°	5294.0
10°	5244.9
12.5°	5200.6
15°	5142.9
17.5°	5076.5
20°	4954.3
22.5°	4753.2
25°	4488.6
27.5°	4181.7
30°	3823.7
32.5°	3385.9
35°	2883.7
37.5°	2329.5
40°	1790.6
42.5°	1360.5
45°	988.2
47.5°	681.2
50°	465.7
52.5°	321.4
55°	218.4
57.5°	131.8
60°	67.4
62.5°	21.2
65°	1.0
67.5°	0.0
70°	0.0
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)