

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: P752702

Luminaire Tested: LD4D70BD010-EU4DR6070959030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752702
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: LD4D70BD010-EU4DR6070959030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5356.5 lumens
Efficiency: N/A
Efficacy: 80.4 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): 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

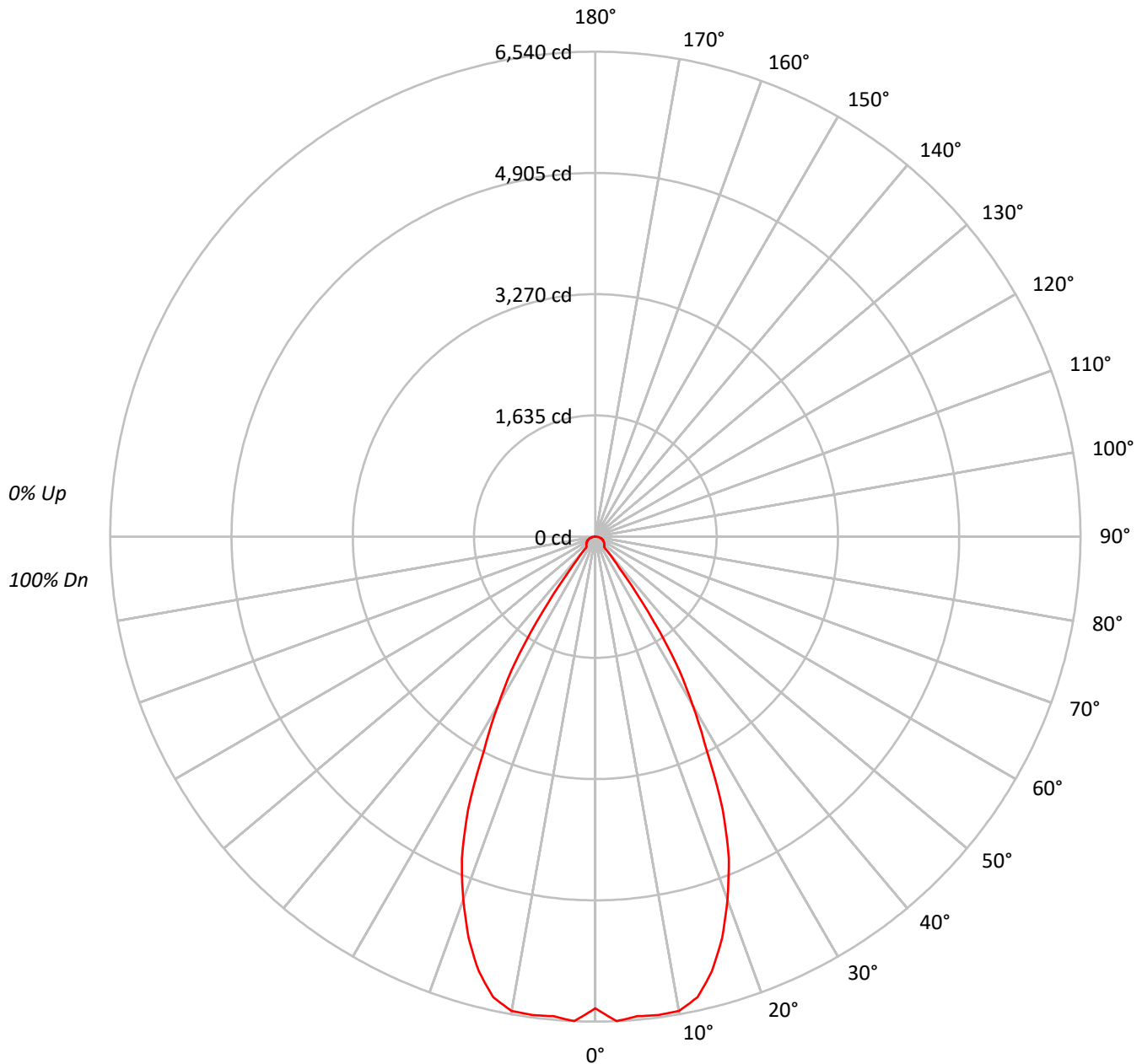


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	695073
5°	712162
10°	720762
15°	686631
20°	605398
25°	489662
30°	331217
35°	165968
40°	26929
45°	26345
50°	26874
55°	27278
60°	28036
65°	28671
70°	29358
75°	29719
80°	28629
85°	23819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 29719 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.6	11.6
10°-20°	1679.0	31.3
20°-30°	1806.5	33.7
30°-40°	785.2	14.7
40°-50°	131.9	2.5
50°-60°	128.2	2.4
60°-70°	109.7	2.0
70°-80°	73.4	1.4
80°-90°	21.9	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°	4106.1	76.7
0°-40°	4891.4	91.3
0°-60°	5151.5	96.2
0°-90°	5356.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5356.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6362	
5°	6493	621
15°	6070	1679
25°	4062	1807
35°	1244	785
45°	170	132
55°	143	128
65°	111	110
75°	70	73
85°	19	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6361.6
2.5°	6540.4
5°	6493.2
7.5°	6508.1
10°	6496.5
12.5°	6362.4
15°	6070.2
17.5°	5677.7
20°	5206.7
22.5°	4702.5
25°	4061.7
27.5°	3248.7
30°	2625.3
32.5°	2023.4
35°	1244.3
37.5°	532.3
40°	188.8
42.5°	173.9
45°	170.5
47.5°	164.8
50°	158.1
52.5°	150.7
55°	143.2
57.5°	135.8
60°	128.3
62.5°	120.0
65°	110.9
67.5°	101.8
70°	91.9
72.5°	81.1
75°	70.4
77.5°	58.0
80°	45.5
82.5°	32.3
85°	19.0
87.5°	6.6
90°	0.0



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— 0°-180°







(END OF REPORT)