

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: P752742

Luminaire Tested: LD4D70BD010-EU4DR6070959050-4LBDP1H

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752742
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-EU4DR6070959050-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 7246.6 lumens
Efficiency: N/A
Efficacy: 108.8 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

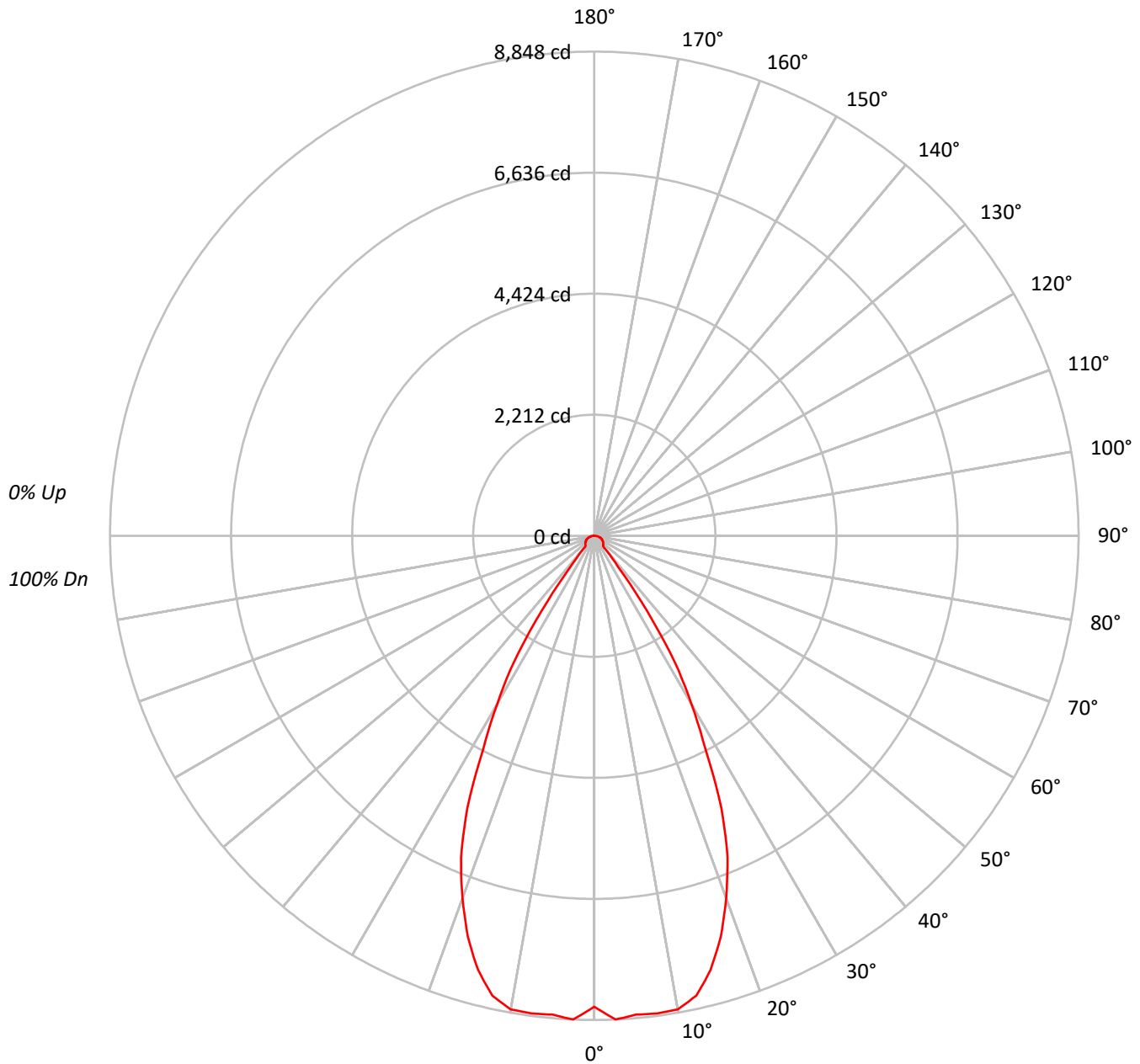


Downlight

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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°	940320
5°	963445
10°	975085
15°	928901
20°	819003
25°	662431
30°	448082
35°	224537
40°	36428
45°	35647
50°	36359
55°	36917
60°	37935
65°	38806
70°	39709
75°	40189
80°	38759
85°	32344

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 75°

Luminance: 40189 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	839.6	11.6
10°-20°	2271.5	31.3
20°-30°	2443.9	33.7
30°-40°	1062.3	14.7
40°-50°	178.4	2.5
50°-60°	173.5	2.4
60°-70°	148.4	2.0
70°-80°	99.3	1.4
80°-90°	29.7	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°	5555.0	76.7
0°-40°	6617.3	91.3
0°-60°	6969.2	96.2
0°-90°	7246.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7246.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8606	
5°	8784	840
15°	8212	2271
25°	5495	2444
35°	1683	1062
45°	231	178
55°	194	173
65°	150	148
75°	95	99
85°	26	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8606.2
2.5°	8848.2
5°	8784.3
7.5°	8804.5
10°	8788.8
12.5°	8607.4
15°	8212.0
17.5°	7681.1
20°	7043.8
22.5°	6361.7
25°	5494.8
27.5°	4395.0
30°	3551.6
32.5°	2737.3
35°	1683.4
37.5°	720.2
40°	255.4
42.5°	235.2
45°	230.7
47.5°	222.9
50°	213.9
52.5°	203.8
55°	193.8
57.5°	183.7
60°	173.6
62.5°	162.4
65°	150.1
67.5°	137.8
70°	124.3
72.5°	109.8
75°	95.2
77.5°	78.4
80°	61.6
82.5°	43.7
85°	25.8
87.5°	9.0
90°	0.0



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— 0°-180°







(END OF REPORT)