

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: P752809

Luminaire Tested: LD4D70BD010-EU4DR6570959040-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P752809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6570959040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5424.4 lumens
Efficiency: N/A
Efficacy: 81.4 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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

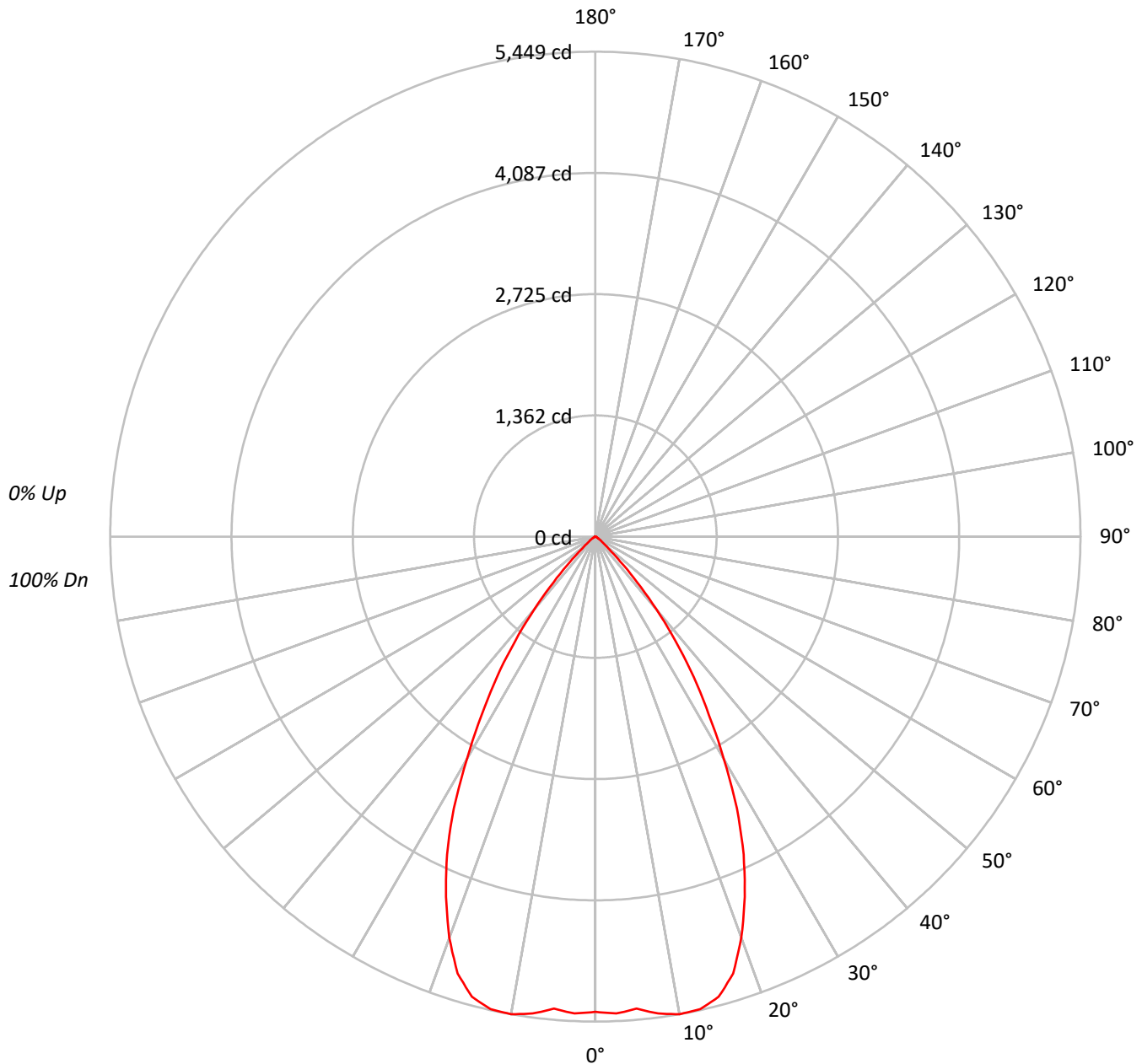


Downlight

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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	111	108	106	111	108	106	104	104	103	101		101	99	98		97
2	108	103	99	95	106	101	97	94	98	95	92		95	92	90		92
3	102	96	91	87	100	94	90	86	92	88	85		89	86	83		87
4	97	89	84	79	95	88	83	79	86	82	78		84	80	77		82
5	92	83	78	73	90	83	77	73	81	76	72		79	75	72		77
6	87	78	72	68	86	77	72	68	76	71	67		74	70	67		73
7	83	73	67	63	81	73	67	63	71	66	62		70	66	62		69
8	79	69	63	59	77	68	63	59	67	62	58		66	62	58		65
9	75	65	59	55	74	65	59	55	64	58	55		63	58	55		62
10	71	61	56	52	70	61	55	52	60	55	51		59	55	51		59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	583518
5°	584003
10°	604568
15°	605561
20°	557528
25°	475038
30°	363654
35°	256922
40°	151658
45°	61560
50°	22318
55°	12439
60°	7124
65°	3930
70°	4121
75°	3208
80°	3335
85°	2883

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 61560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.3	9.5
10°-20°	1483.4	27.3
20°-30°	1779.8	32.8
30°-40°	1196.1	22.1
40°-50°	358.0	6.6
50°-60°	63.2	1.2
60°-70°	18.0	0.3
70°-80°	8.8	0.2
80°-90°	2.8	0.1
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°	3777.5	69.6
0°-40°	4973.5	91.7
0°-60°	5394.8	99.5
0°-90°	5424.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5424.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5341	
5°	5325	514
15°	5354	1483
25°	3940	1780
35°	1926	1196
45°	398	358
55°	65	63
65°	15	18
75°	8	9
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5340.6
2.5°	5363.4
5°	5324.7
7.5°	5405.1
10°	5449.2
12.5°	5438.5
15°	5353.5
17.5°	5145.6
20°	4795.0
22.5°	4382.1
25°	3940.4
27.5°	3441.8
30°	2882.4
32.5°	2375.5
35°	1926.2
37.5°	1482.2
40°	1063.3
42.5°	694.4
45°	398.4
47.5°	211.0
50°	131.3
52.5°	91.1
55°	65.3
57.5°	47.1
60°	32.6
62.5°	21.3
65°	15.2
67.5°	13.7
70°	12.9
72.5°	9.9
75°	7.6
77.5°	6.8
80°	5.3
82.5°	3.8
85°	2.3
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)