

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: P752790

Luminaire Tested: LD4D70BD010-EU4DR6570959035-4LBCSSQMB

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D70BD010-EU4DR6570959035-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6031.6 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96
Luminous Opening: Circular (Dia: 0.48' x H: 0')
CIE Type: Direct

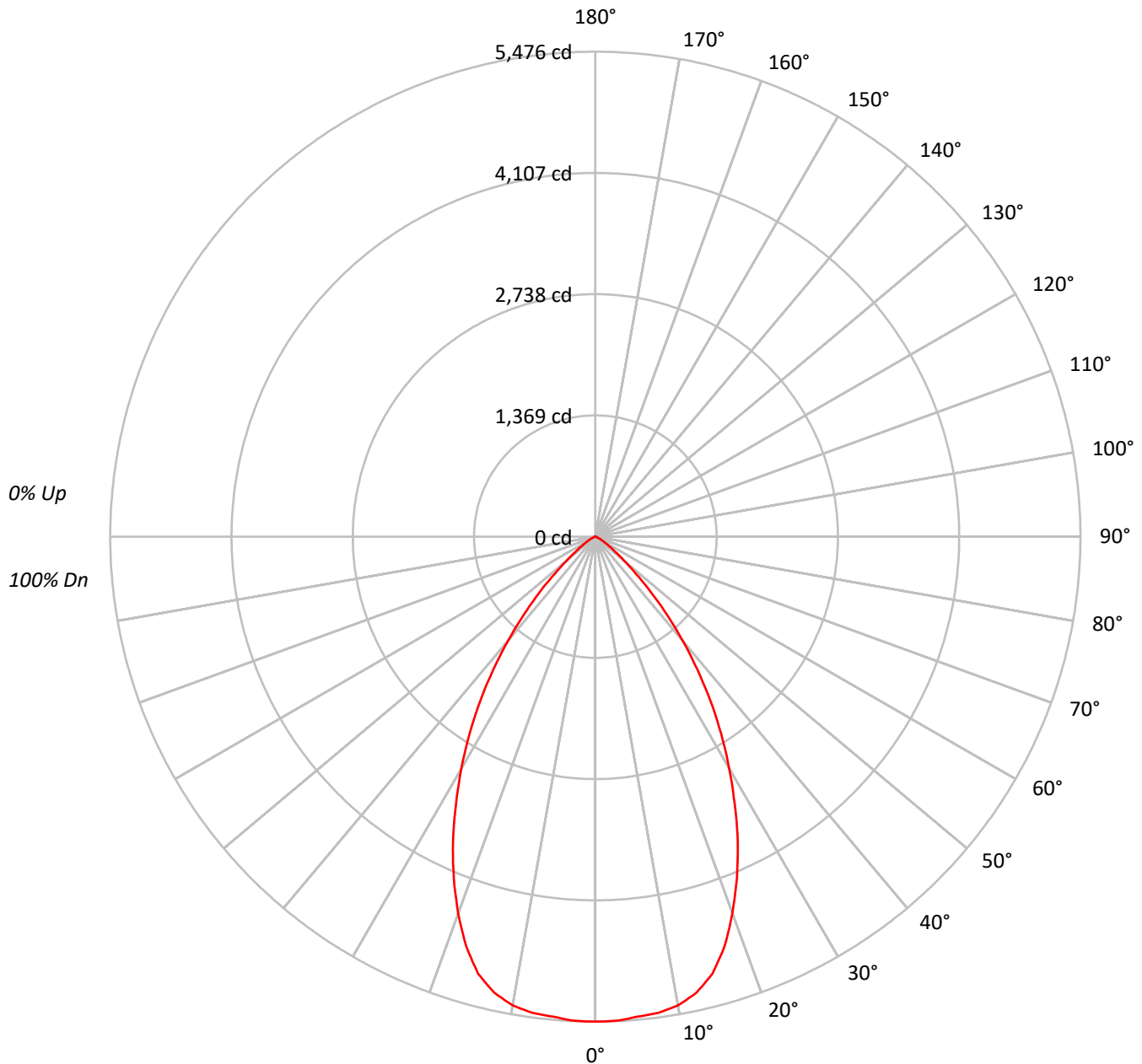
Input Watts (W): 66.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	319849
5°	319042
10°	318769
15°	308948
20°	281257
25°	245097
30°	203855
35°	161526
40°	116580
45°	73650
50°	38388
55°	20406
60°	10711
65°	5901
70°	2476
75°	2730
80°	1883
85°	1608

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 73650 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	517.9	8.6
10°-20°	1418.2	23.5
20°-30°	1733.6	28.7
30°-40°	1406.6	23.3
40°-50°	700.9	11.6
50°-60°	195.5	3.2
60°-70°	44.4	0.7
70°-80°	11.6	0.2
80°-90°	2.9	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°	3669.7	60.8
0°-40°	5076.3	84.2
0°-60°	5972.7	99.0
0°-90°	6031.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6031.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5476	
5°	5442	518
15°	5110	1418
25°	3803	1734
35°	2266	1407
45°	892	701
55°	200	195
65°	43	44
75°	12	12
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5476.5
2.5°	5472.5
5°	5441.9
7.5°	5424.2
10°	5375.1
12.5°	5275.4
15°	5109.6
17.5°	4850.4
20°	4525.3
22.5°	4174.4
25°	3803.4
27.5°	3406.6
30°	3022.8
32.5°	2643.7
35°	2265.5
37.5°	1888.0
40°	1529.1
42.5°	1192.7
45°	891.7
47.5°	621.3
50°	422.5
52.5°	291.3
55°	200.4
57.5°	135.2
60°	91.7
62.5°	63.6
65°	42.7
67.5°	21.7
70°	14.5
72.5°	13.7
75°	12.1
77.5°	8.0
80°	5.6
82.5°	4.0
85°	2.4
87.5°	1.6
90°	0.0



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— 0°-180°







(END OF REPORT)