

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: P752774

Luminaire Tested: LD4D70BD010-EU4DR6570959027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752774
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-EU4DR6570959027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5770.5 lumens
Efficiency: N/A
Efficacy: 86.6 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

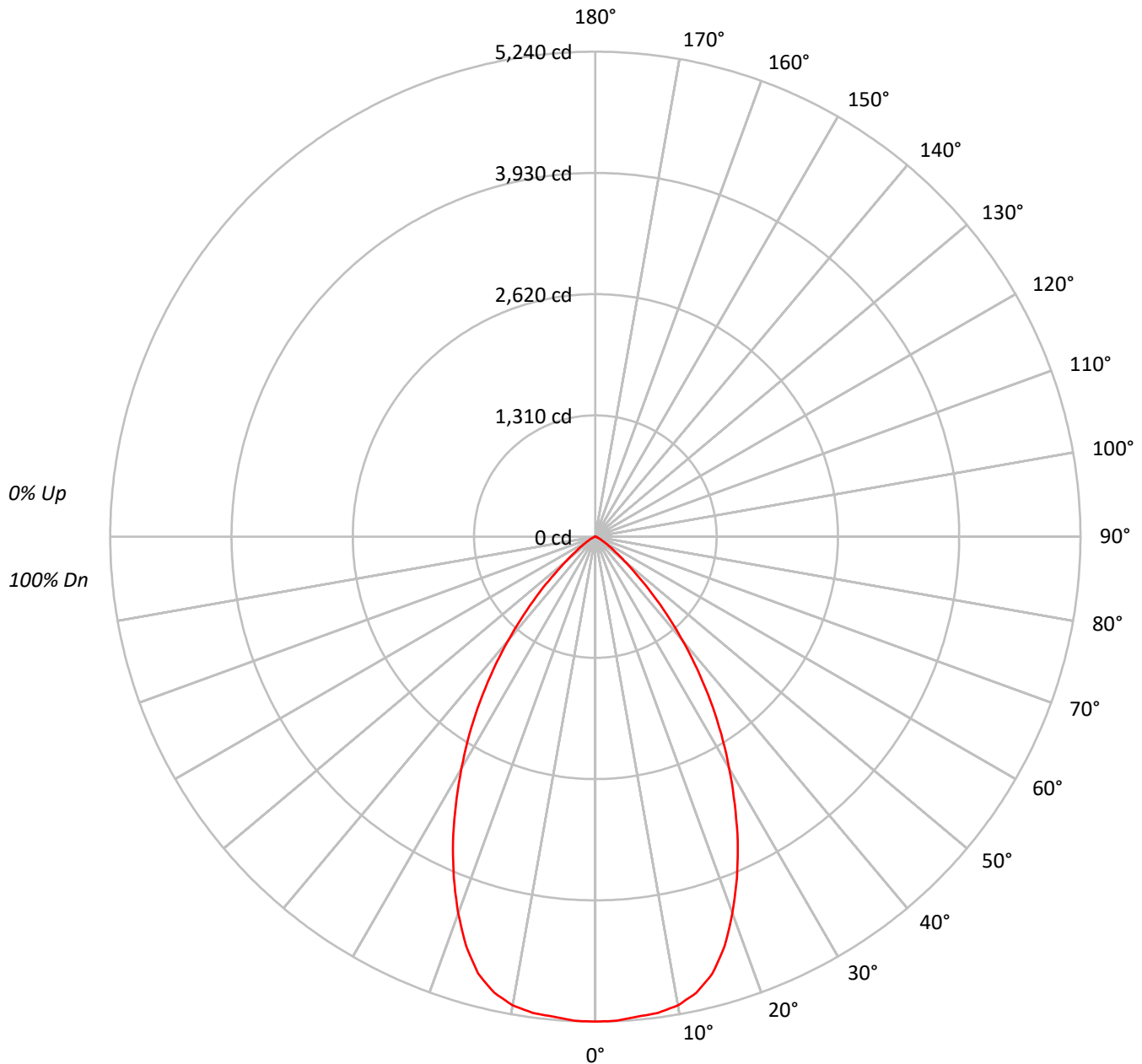


Downlight

TEST NUMBER: P752774

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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°	306007
5°	305235
10°	304975
15°	295573
20°	269081
25°	234490
30°	195027
35°	154531
40°	111533
45°	70462
50°	36726
55°	19520
60°	10256
65°	5638
70°	2374
75°	2595
80°	1816
85°	1541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 70462 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	495.5	8.6
10°-20°	1356.8	23.5
20°-30°	1658.5	28.7
30°-40°	1345.7	23.3
40°-50°	670.6	11.6
50°-60°	187.0	3.2
60°-70°	42.5	0.7
70°-80°	11.1	0.2
80°-90°	2.8	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°	3510.9	60.8
0°-40°	4856.5	84.2
0°-60°	5714.2	99.0
0°-90°	5770.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5770.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5240	
5°	5206	495
15°	4888	1357
25°	3639	1659
35°	2167	1346
45°	853	671
55°	192	187
65°	41	43
75°	12	11
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5239.5
2.5°	5235.7
5°	5206.4
7.5°	5189.5
10°	5142.5
12.5°	5047.0
15°	4888.4
17.5°	4640.5
20°	4329.4
22.5°	3993.7
25°	3638.8
27.5°	3259.2
30°	2891.9
32.5°	2529.3
35°	2167.4
37.5°	1806.3
40°	1462.9
42.5°	1141.1
45°	853.1
47.5°	594.4
50°	404.2
52.5°	278.7
55°	191.7
57.5°	129.4
60°	87.8
62.5°	60.8
65°	40.8
67.5°	20.8
70°	13.9
72.5°	13.1
75°	11.5
77.5°	7.7
80°	5.4
82.5°	3.8
85°	2.3
87.5°	1.5
90°	0.0



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— 0°-180°







(END OF REPORT)