

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: P752771

Luminaire Tested: LD4D70BD010-EU4DR6570959027-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P752771
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-EU4DR6570959027-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5638.4 lumens
Efficiency: N/A
Efficacy: 84.7 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

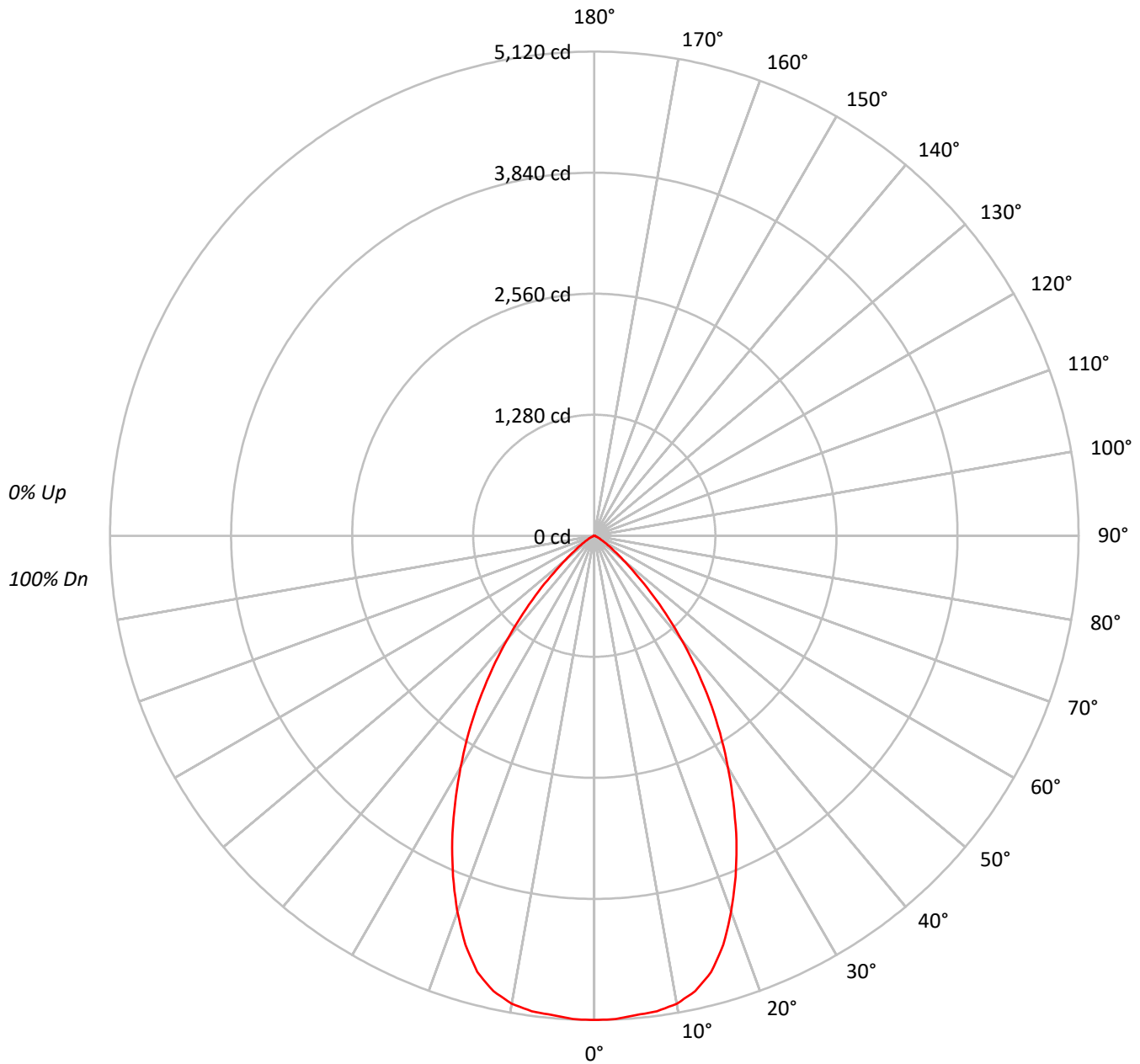


Downlight

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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°	298999
5°	298247
10°	297989
15°	288807
20°	262922
25°	229122
30°	190562
35°	150995
40°	108979
45°	68852
50°	35890
55°	19072
60°	10022
65°	5514
70°	2305
75°	2550
80°	1783
85°	1541

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 68852 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	484.1	8.6
10°-20°	1325.8	23.5
20°-30°	1620.6	28.7
30°-40°	1314.9	23.3
40°-50°	655.2	11.6
50°-60°	182.8	3.2
60°-70°	41.5	0.7
70°-80°	10.8	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°	3430.5	60.8
0°-40°	4745.3	84.2
0°-60°	5583.3	99.0
0°-90°	5638.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5638.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5120	
5°	5087	484
15°	4776	1326
25°	3556	1621
35°	2118	1315
45°	834	655
55°	187	183
65°	40	42
75°	11	11
85°	2	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5119.5
2.5°	5115.8
5°	5087.2
7.5°	5070.6
10°	5024.7
12.5°	4931.4
15°	4776.5
17.5°	4534.2
20°	4230.3
22.5°	3902.3
25°	3555.5
27.5°	3184.6
30°	2825.7
32.5°	2471.4
35°	2117.8
37.5°	1764.9
40°	1429.4
42.5°	1114.9
45°	833.6
47.5°	580.8
50°	395.0
52.5°	272.3
55°	187.3
57.5°	126.4
60°	85.8
62.5°	59.4
65°	39.9
67.5°	20.3
70°	13.5
72.5°	12.8
75°	11.3
77.5°	7.5
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)