

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: P753603

Luminaire Tested: LD4D75BD010-EU4DR6570959050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P753603
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: LD4D75BD010-EU4DR6570959050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6540.6 lumens
Efficiency: N/A
Efficacy: 90.3 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): 72.4
Input Voltage (V): NR
Input Current (A_{in}): 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

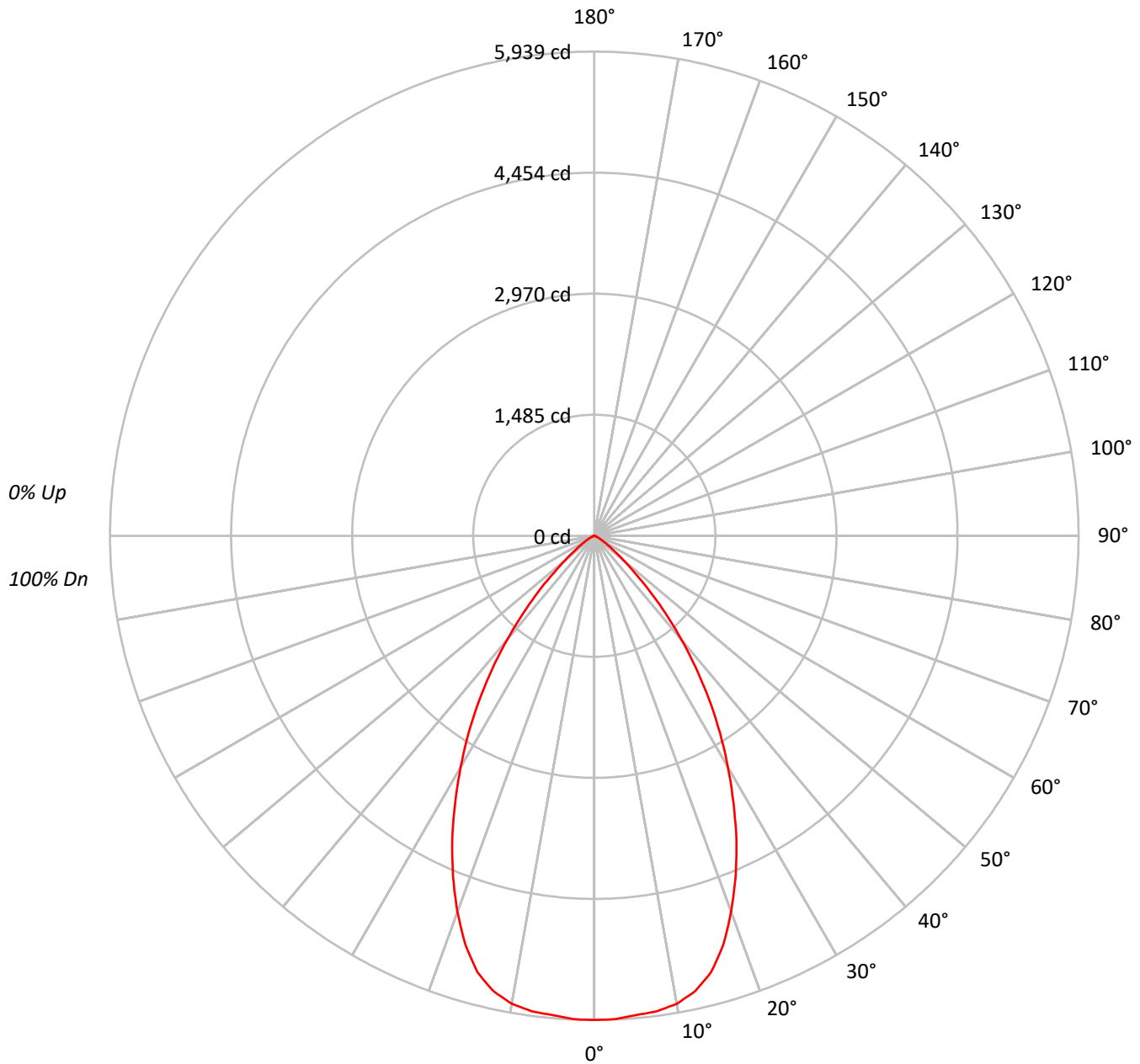


Downlight

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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	113	110	107	105		111	108	105	103		104	102	100		100	99	97		97	95	94
2	107	102	97	94		105	100	96	92		97	93	90		94	91	88		91	89	87
3	101	94	88	84		99	92	87	83		90	86	82		87	84	81		85	82	80
4	95	87	81	76		93	86	80	76		84	79	75		82	77	74		80	76	73
5	90	81	74	70		88	80	74	69		78	73	69		76	72	68		75	71	68
6	85	75	69	64		83	74	68	64		73	67	63		71	67	63		70	66	62
7	80	70	64	59		79	69	63	59		68	63	59		67	62	58		66	61	58
8	76	66	59	55		75	65	59	55		64	58	54		63	58	54		62	57	54
9	72	61	55	51		71	61	55	51		60	54	51		59	54	50		58	54	50
10	68	58	52	47		67	57	51	47		57	51	47		56	51	47		55	50	47

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	346843
5°	345969
10°	345670
15°	335014
20°	304993
25°	265783
30°	221051
35°	175151
40°	126415
45°	79862
50°	41632
55°	22126
60°	11622
65°	6398
70°	2681
75°	2956
80°	2052
85°	1742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 79862 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	561.6	8.6
10°-20°	1537.9	23.5
20°-30°	1879.9	28.7
30°-40°	1525.2	23.3
40°-50°	760.0	11.6
50°-60°	212.0	3.2
60°-70°	48.2	0.7
70°-80°	12.5	0.2
80°-90°	3.2	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°	3979.4	60.8
0°-40°	5504.6	84.2
0°-60°	6476.6	99.0
0°-90°	6540.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6540.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5939	
5°	5901	562
15°	5541	1538
25°	4124	1880
35°	2457	1525
45°	967	760
55°	217	212
65°	46	48
75°	13	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	5938.7
2.5°	5934.3
5°	5901.2
7.5°	5882.0
10°	5828.7
12.5°	5720.5
15°	5540.7
17.5°	5259.7
20°	4907.2
22.5°	4526.7
25°	4124.4
27.5°	3694.1
30°	3277.8
32.5°	2866.8
35°	2456.6
37.5°	2047.3
40°	1658.1
42.5°	1293.3
45°	966.9
47.5°	673.7
50°	458.2
52.5°	315.9
55°	217.3
57.5°	146.6
60°	99.5
62.5°	68.9
65°	46.3
67.5°	23.6
70°	15.7
72.5°	14.8
75°	13.1
77.5°	8.7
80°	6.1
82.5°	4.4
85°	2.6
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)