

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: P753300

Luminaire Tested: LD4D75BD010-EU4DR5070959024-4LBDP1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-44)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D75BD010-EU4DR5070959024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5682.5 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 0.8 / 0.8 / 0.73
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 72.4
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

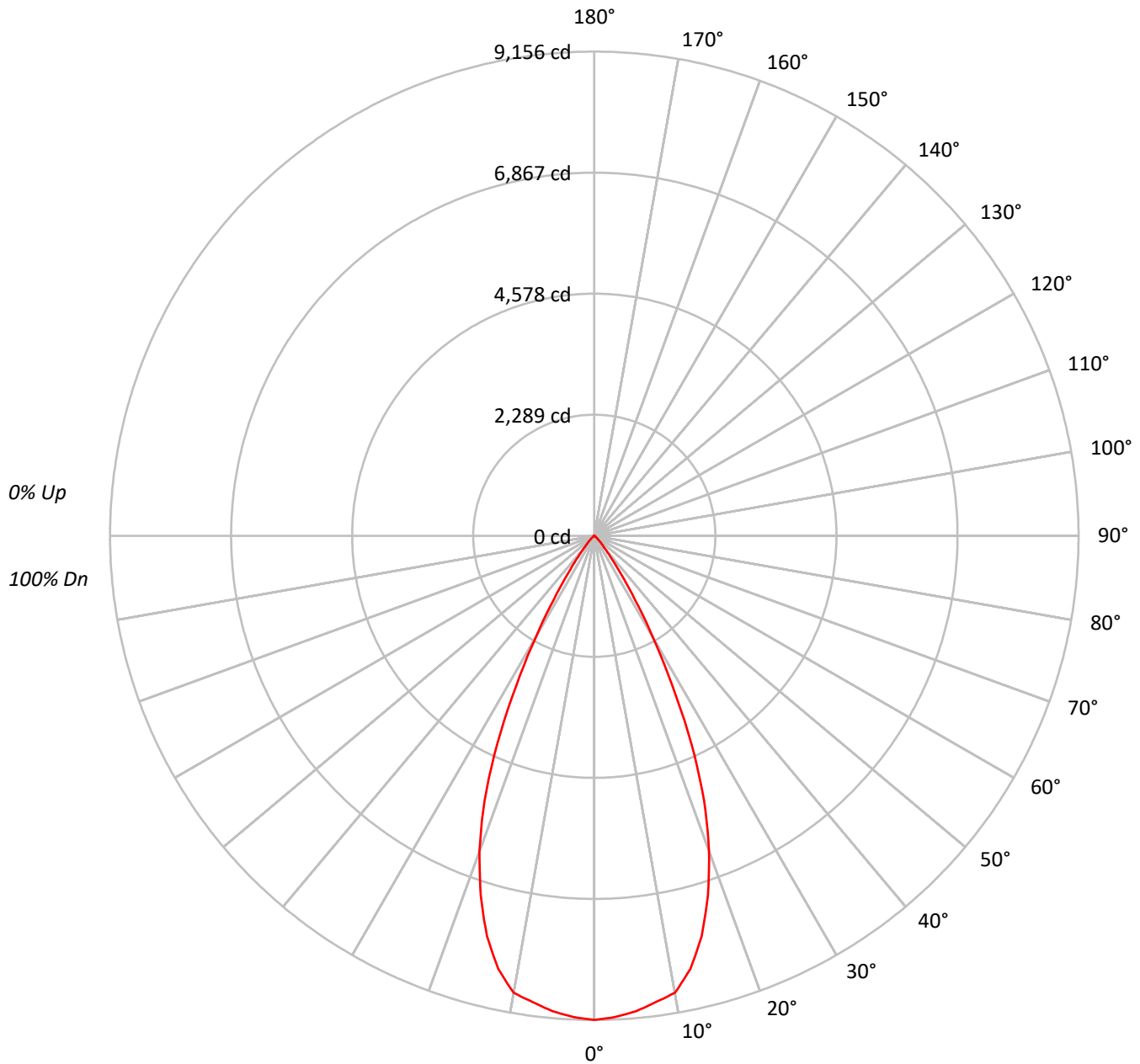


Downlight

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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					0
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			0
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			100
1	114	112	109	107	112	110	108	106		106	104	102			102	101	99			95
2	109	105	101	98	107	103	100	97		100	98	95			97	95	93			90
3	105	99	95	91	103	98	94	90		95	92	89			93	90	88			85
4	100	94	89	85	99	93	88	85		90	87	84			89	85	83			80
5	96	89	84	80	95	88	83	79		86	82	79			85	81	78			76
6	92	84	79	75	91	83	79	75		82	78	74			81	77	74			72
7	88	80	75	71	87	79	74	71		78	74	71			77	73	70			69
8	85	76	71	67	84	76	71	67		75	70	67			74	70	67			65
9	81	73	68	64	80	72	67	64		71	67	64			71	67	64			62
10	78	70	64	61	77	69	64	61		68	64	61			68	64	61			59

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1000391
5°	989900
10°	973598
15°	886539
20°	737705
25°	523659
30°	277168
35°	112949
40°	41947
45°	19207
50°	7870
55°	4115
60°	2032
65°	595
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19207 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	853.1	15.0
10°-20°	2156.0	37.9
20°-30°	1936.6	34.1
30°-40°	606.3	10.7
40°-50°	106.2	1.9
50°-60°	21.2	0.4
60°-70°	3.2	0.1
70°-80°	0.0	0.0
80°-90°	0.0	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°	4945.7	87.0
0°-40°	5552.0	97.7
0°-60°	5679.3	99.9
0°-90°	5682.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5682.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9156	
5°	9026	853
15°	7838	2156
25°	4344	1937
35°	847	606
45°	124	106
55°	22	21
65°	2	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9156.0
2.5°	9110.4
5°	9025.5
7.5°	8895.8
10°	8775.4
12.5°	8389.5
15°	7837.5
17.5°	7136.6
20°	6344.6
22.5°	5428.3
25°	4343.7
27.5°	3193.5
30°	2196.9
32.5°	1430.4
35°	846.8
37.5°	486.3
40°	294.1
42.5°	191.4
45°	124.3
47.5°	75.7
50°	46.3
52.5°	31.6
55°	21.6
57.5°	14.7
60°	9.3
62.5°	5.4
65°	2.3
67.5°	0.8
70°	0.0
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)