

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: P753290

Luminaire Tested: LD4D75BD010-EU4DR4570959050-4LBDP1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D75BD010-EU4DR4570959050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7402.5 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' 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

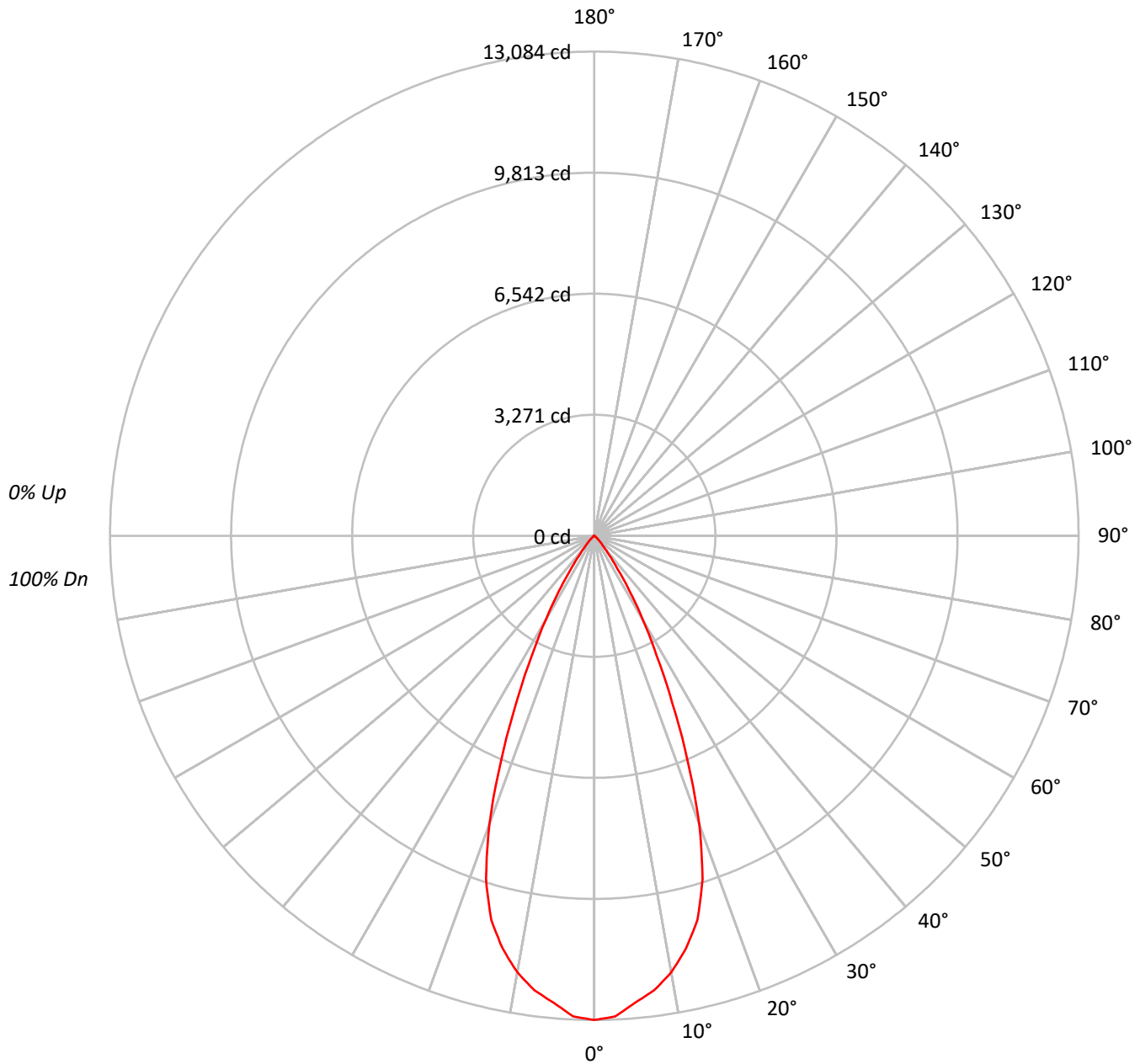


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1429590
5°	1388887
10°	1328781
15°	1216123
20°	964809
25°	602346
30°	331987
35°	149069
40°	58706
45°	27674
50°	13122
55°	6858
60°	3365
65°	801
70°	319
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 27674 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1189.8	16.1
10°-20°	2928.3	39.6
20°-30°	2318.9	31.3
30°-40°	772.2	10.4
40°-50°	153.3	2.1
50°-60°	34.8	0.5
60°-70°	5.0	0.1
70°-80°	0.1	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°	6437.1	87.0
0°-40°	7209.3	97.4
0°-60°	7397.4	99.9
0°-90°	7402.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7402.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13084	
5°	12663	###
15°	10751	2928
25°	4996	2319
35°	1118	772
45°	179	153
55°	36	35
65°	3	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13084.2
2.5°	12998.8
5°	12663.3
7.5°	12386.4
10°	11976.8
12.5°	11431.4
15°	10751.2
17.5°	9728.2
20°	8297.8
22.5°	6593.5
25°	4996.4
27.5°	3658.5
30°	2631.4
32.5°	1789.6
35°	1117.6
37.5°	662.8
40°	411.6
42.5°	270.7
45°	179.1
47.5°	115.3
50°	77.2
52.5°	51.5
55°	36.0
57.5°	23.7
60°	15.4
62.5°	8.2
65°	3.1
67.5°	1.0
70°	1.0
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)