

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: P753552

Luminaire Tested: LD4D75BD010-EU4DR6570959027-4LBS1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P753552
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-EU4DR6570959027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6418.6 lumens
Efficiency: N/A
Efficacy: 88.7 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): 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

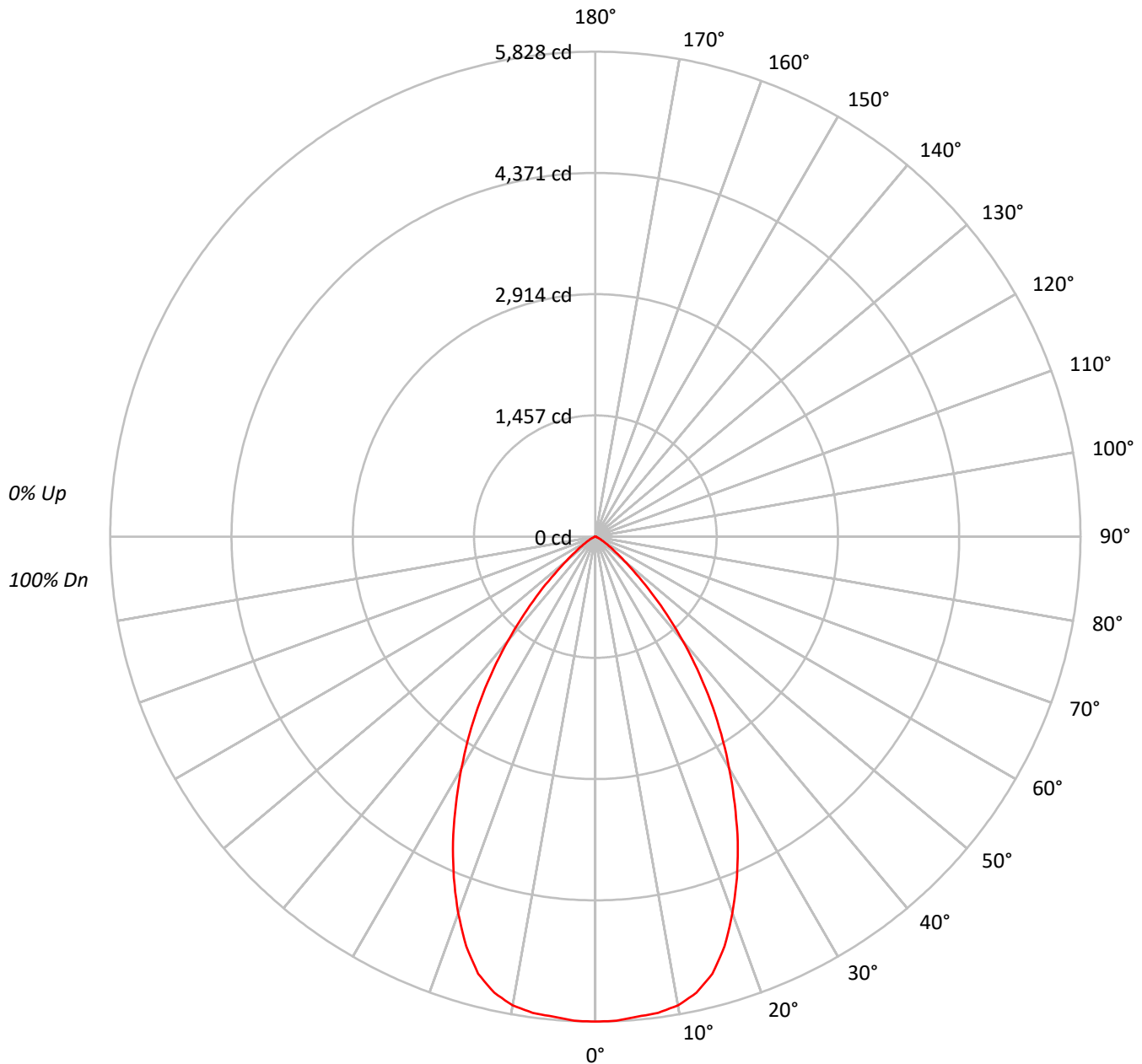


Downlight

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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				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°	340372
5°	339515
10°	339224
15°	328768
20°	299300
25°	260821
30°	216931
35°	171885
40°	124059
45°	78375
50°	40851
55°	21709
60°	11400
65°	6274
70°	2630
75°	2888
80°	2018
85°	1742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 78375 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.1	8.6
10°-20°	1509.2	23.5
20°-30°	1844.8	28.7
30°-40°	1496.8	23.3
40°-50°	745.9	11.6
50°-60°	208.0	3.2
60°-70°	47.3	0.7
70°-80°	12.3	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°	3905.1	60.8
0°-40°	5401.9	84.2
0°-60°	6355.8	99.0
0°-90°	6418.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6418.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5828	
5°	5791	551
15°	5437	1509
25°	4047	1845
35°	2411	1497
45°	949	746
55°	213	208
65°	45	47
75°	13	12
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5827.9
2.5°	5823.6
5°	5791.1
7.5°	5772.2
10°	5720.0
12.5°	5613.8
15°	5437.4
17.5°	5161.6
20°	4815.6
22.5°	4442.2
25°	4047.4
27.5°	3625.2
30°	3216.7
32.5°	2813.3
35°	2410.8
37.5°	2009.1
40°	1627.2
42.5°	1269.2
45°	948.9
47.5°	661.2
50°	449.6
52.5°	310.0
55°	213.2
57.5°	143.9
60°	97.6
62.5°	67.7
65°	45.4
67.5°	23.1
70°	15.4
72.5°	14.6
75°	12.8
77.5°	8.6
80°	6.0
82.5°	4.3
85°	2.6
87.5°	1.7
90°	0.0



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— 0°-180°







(END OF REPORT)