

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: P753579

Luminaire Tested: LD4D75BD010-EU4DR6570959035-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P753579
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-EU4DR6570959035-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7016.3 lumens
Efficiency: N/A
Efficacy: 96.9 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

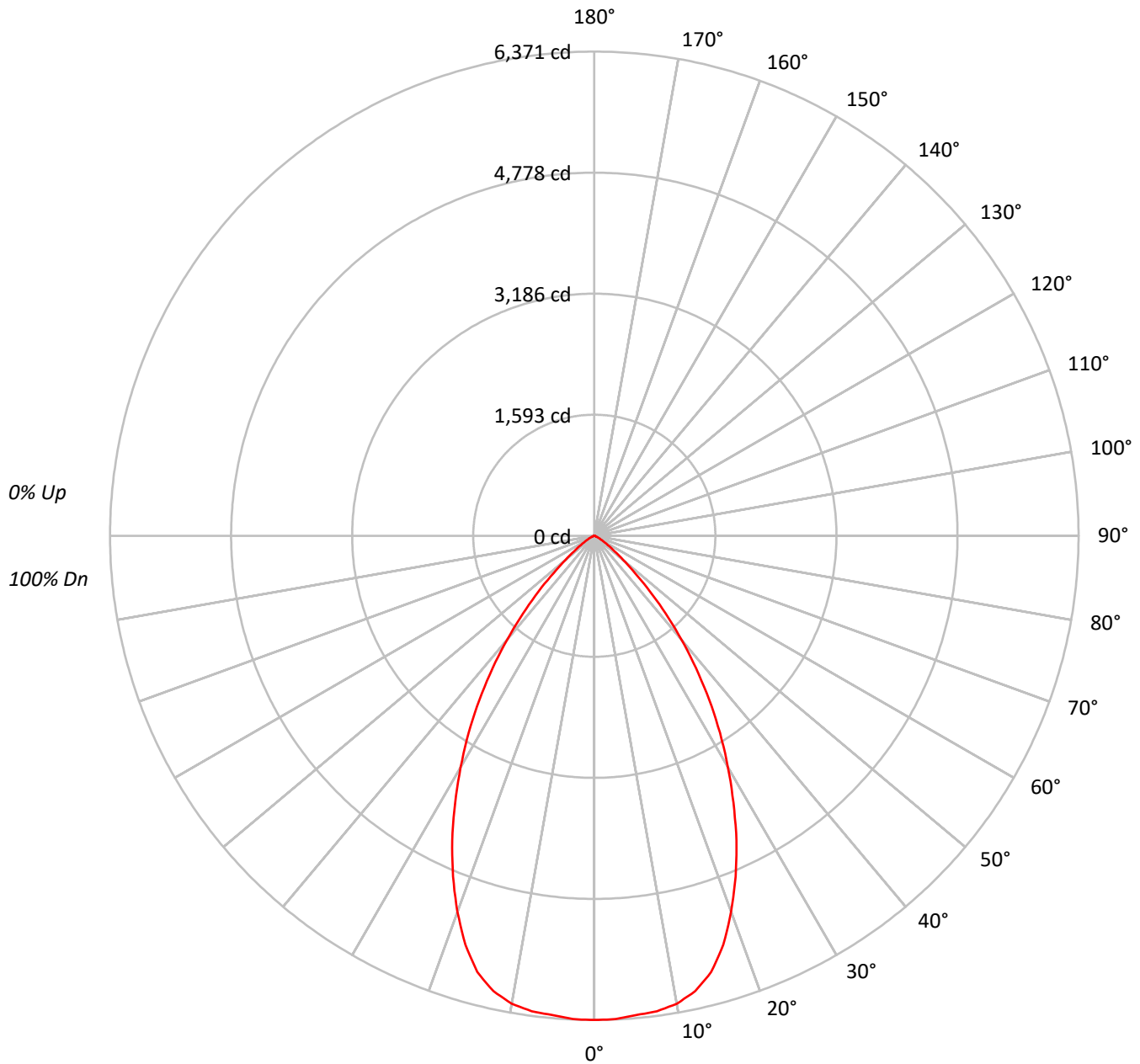


Downlight

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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	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°	372068
5°	371132
10°	370815
15°	359381
20°	327175
25°	285109
30°	237129
35°	187892
40°	135610
45°	85676
50°	44658
55°	23735
60°	12463
65°	6854
70°	2886
75°	3159
80°	2220
85°	1876

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 85676 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.5	8.6
10°-20°	1649.8	23.5
20°-30°	2016.6	28.7
30°-40°	1636.2	23.3
40°-50°	815.3	11.6
50°-60°	227.4	3.2
60°-70°	51.7	0.7
70°-80°	13.5	0.2
80°-90°	3.5	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°	4268.8	60.8
0°-40°	5905.0	84.2
0°-60°	6947.7	99.0
0°-90°	7016.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7016.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6371	
5°	6330	602
15°	5944	1650
25°	4424	2017
35°	2635	1636
45°	1037	815
55°	233	227
65°	50	52
75°	14	13
85°	3	3
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	6370.6
2.5°	6365.9
5°	6330.4
7.5°	6309.8
10°	6252.7
12.5°	6136.6
15°	5943.7
17.5°	5642.3
20°	5264.1
22.5°	4855.9
25°	4424.3
27.5°	3962.8
30°	3516.2
32.5°	3075.3
35°	2635.3
37.5°	2196.2
40°	1778.7
42.5°	1387.4
45°	1037.3
47.5°	722.7
50°	491.5
52.5°	338.9
55°	233.1
57.5°	157.3
60°	106.7
62.5°	74.0
65°	49.6
67.5°	25.3
70°	16.9
72.5°	15.9
75°	14.0
77.5°	9.4
80°	6.6
82.5°	4.7
85°	2.8
87.5°	1.9
90°	0.0



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— 0°-180°







(END OF REPORT)