

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: P753358

Luminaire Tested: LD4D75BD010-EU4DR5070959040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P753358
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-EU4DR5070959040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 50° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8694.7 lumens
Efficiency: N/A
Efficacy: 120.1 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

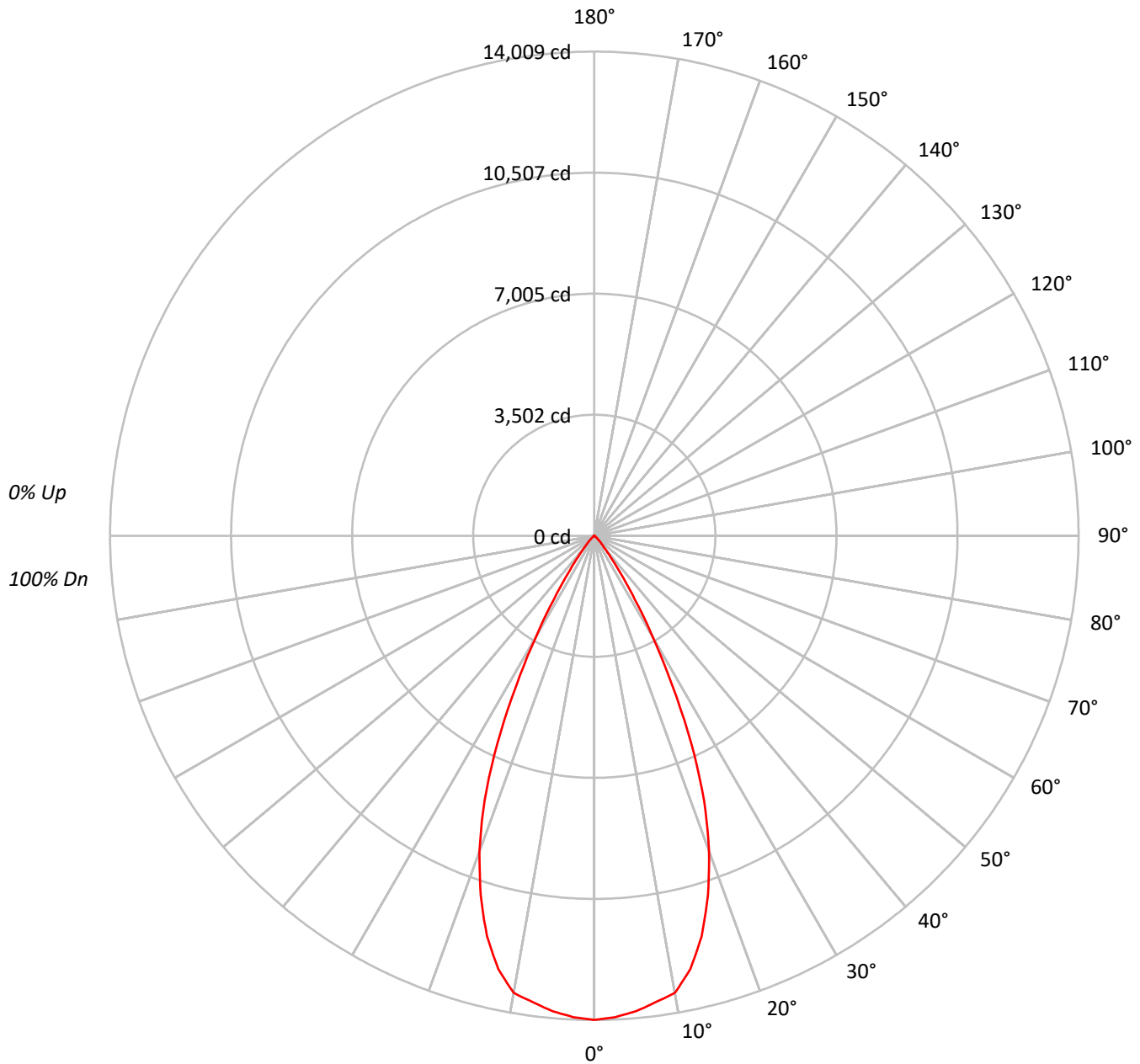


Downlight

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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					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	114	112	109	107		112	110	108	106		106	104	102		102	101	99		98	97	97
2	109	105	101	98		107	103	100	97		100	98	95		97	95	93		95	93	91
3	105	99	95	91		103	98	94	90		95	92	89		93	90	88		91	88	86
4	100	94	89	85		99	93	88	85		90	87	84		89	85	83		87	84	82
5	96	89	84	80		95	88	83	79		86	82	79		85	81	78		83	80	77
6	92	84	79	75		91	83	79	75		82	78	74		81	77	74		79	76	74
7	88	80	75	71		87	79	74	71		78	74	71		77	73	70		76	73	70
8	85	76	71	67		84	76	71	67		75	70	67		74	70	67		73	69	66
9	81	73	68	64		80	72	67	64		71	67	64		71	67	64		70	66	63
10	78	70	64	61		77	69	64	61		68	64	61		68	64	61		67	63	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1530678
5°	1514622
10°	1489687
15°	1356476
20°	1128742
25°	801239
30°	424098
35°	172824
40°	64183
45°	29389
50°	12052
55°	6305
60°	3103
65°	905
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 29389 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1305.3	15.0
10°-20°	3298.8	37.9
20°-30°	2963.2	34.1
30°-40°	927.7	10.7
40°-50°	162.5	1.9
50°-60°	32.4	0.4
60°-70°	4.9	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°	7567.2	87.0
0°-40°	8495.0	97.7
0°-60°	8689.8	99.9
0°-90°	8694.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8694.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	14009	
5°	13810	###
15°	11992	3299
25°	6646	2963
35°	1296	928
45°	190	162
55°	33	32
65°	4	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	14009.4
2.5°	13939.7
5°	13809.7
7.5°	13611.3
10°	13427.1
12.5°	12836.5
15°	11992.0
17.5°	10919.5
20°	9707.7
22.5°	8305.7
25°	6646.2
27.5°	4886.3
30°	3361.5
32.5°	2188.6
35°	1295.7
37.5°	744.1
40°	450.0
42.5°	292.9
45°	190.2
47.5°	115.8
50°	70.9
52.5°	48.4
55°	33.1
57.5°	22.4
60°	14.2
62.5°	8.3
65°	3.5
67.5°	1.2
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)