

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: P778786

Luminaire Tested: LER4D02D010-EC4DR650210IC9027-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P778786
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: LER4D02D010-EC4DR650210IC9027-4LBS1LI
Description: 4 INCH ROUND SHALLOW 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: 326.9 lumens
Efficiency: N/A
Efficacy: 64.1 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): 5.1
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



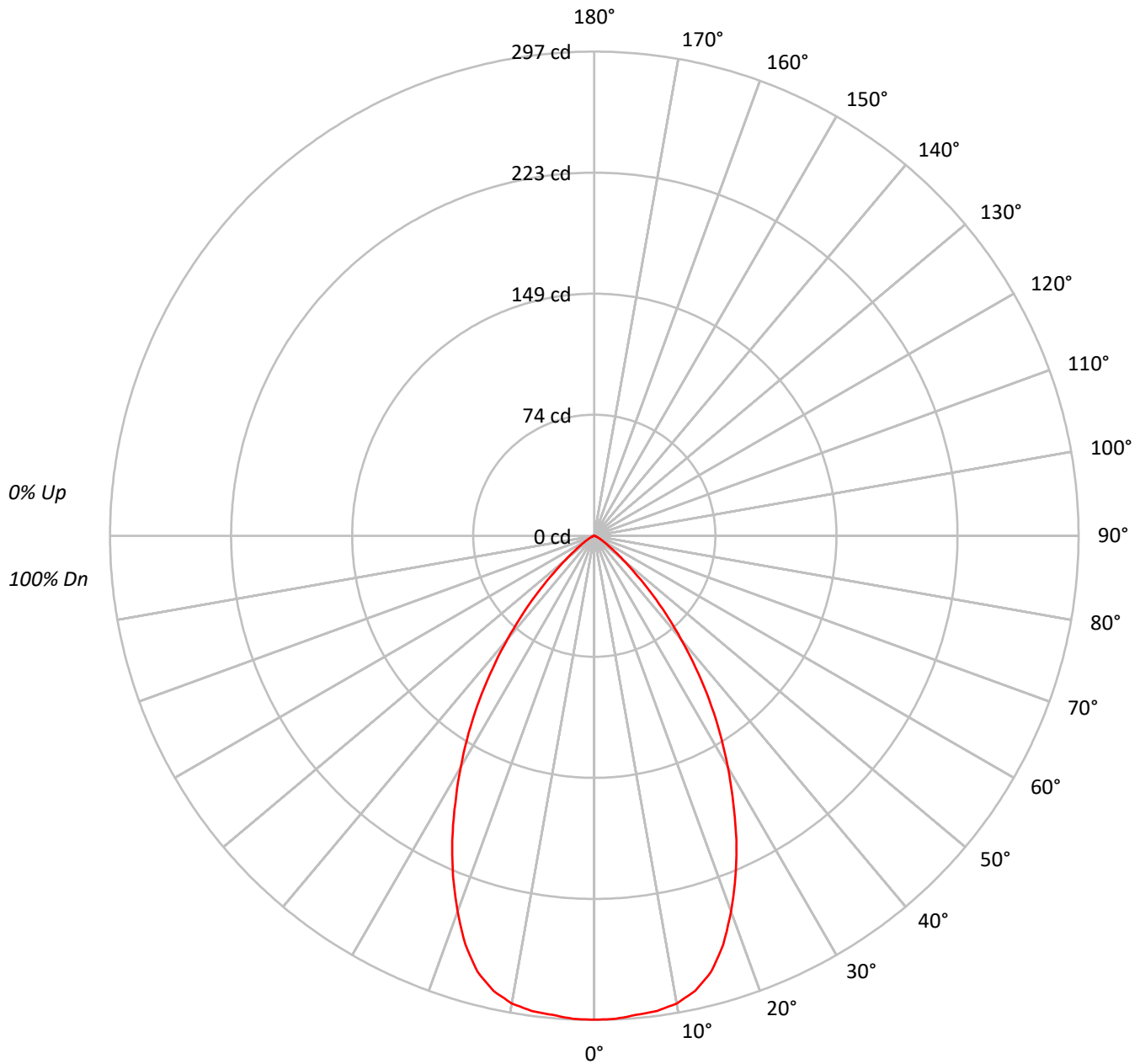
Downlight



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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	106	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	89		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°	17334
5°	17295
10°	17276
15°	16743
20°	15240
25°	13281
30°	11047
35°	8755
40°	6313
45°	3989
50°	2081
55°	1110
60°	584
65°	318
70°	137
75°	135
80°	101
85°	67

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3989 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.1	8.6
10°-20°	76.9	23.5
20°-30°	93.9	28.7
30°-40°	76.2	23.3
40°-50°	38.0	11.6
50°-60°	10.6	3.2
60°-70°	2.4	0.7
70°-80°	0.6	0.2
80°-90°	0.1	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°	198.9	60.8
0°-40°	275.1	84.2
0°-60°	323.7	99.0
0°-90°	326.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	326.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	297	
5°	295	28
15°	277	77
25°	206	94
35°	123	76
45°	48	38
55°	11	11
65°	2	2
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	296.8
2.5°	296.6
5°	295.0
7.5°	294.0
10°	291.3
12.5°	285.9
15°	276.9
17.5°	262.9
20°	245.2
22.5°	226.3
25°	206.1
27.5°	184.6
30°	163.8
32.5°	143.3
35°	122.8
37.5°	102.3
40°	82.8
42.5°	64.6
45°	48.3
47.5°	33.7
50°	22.9
52.5°	15.8
55°	10.9
57.5°	7.3
60°	5.0
62.5°	3.4
65°	2.3
67.5°	1.2
70°	0.8
72.5°	0.7
75°	0.6
77.5°	0.5
80°	0.3
82.5°	0.2
85°	0.1
87.5°	0.1
90°	0.0



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— 0°-180°







(END OF REPORT)