

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: P779986

Luminaire Tested: LER4D15D010-EC4DR550215IC9027-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P779986
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D15D010-EC4DR550215IC9027-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1469.9 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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



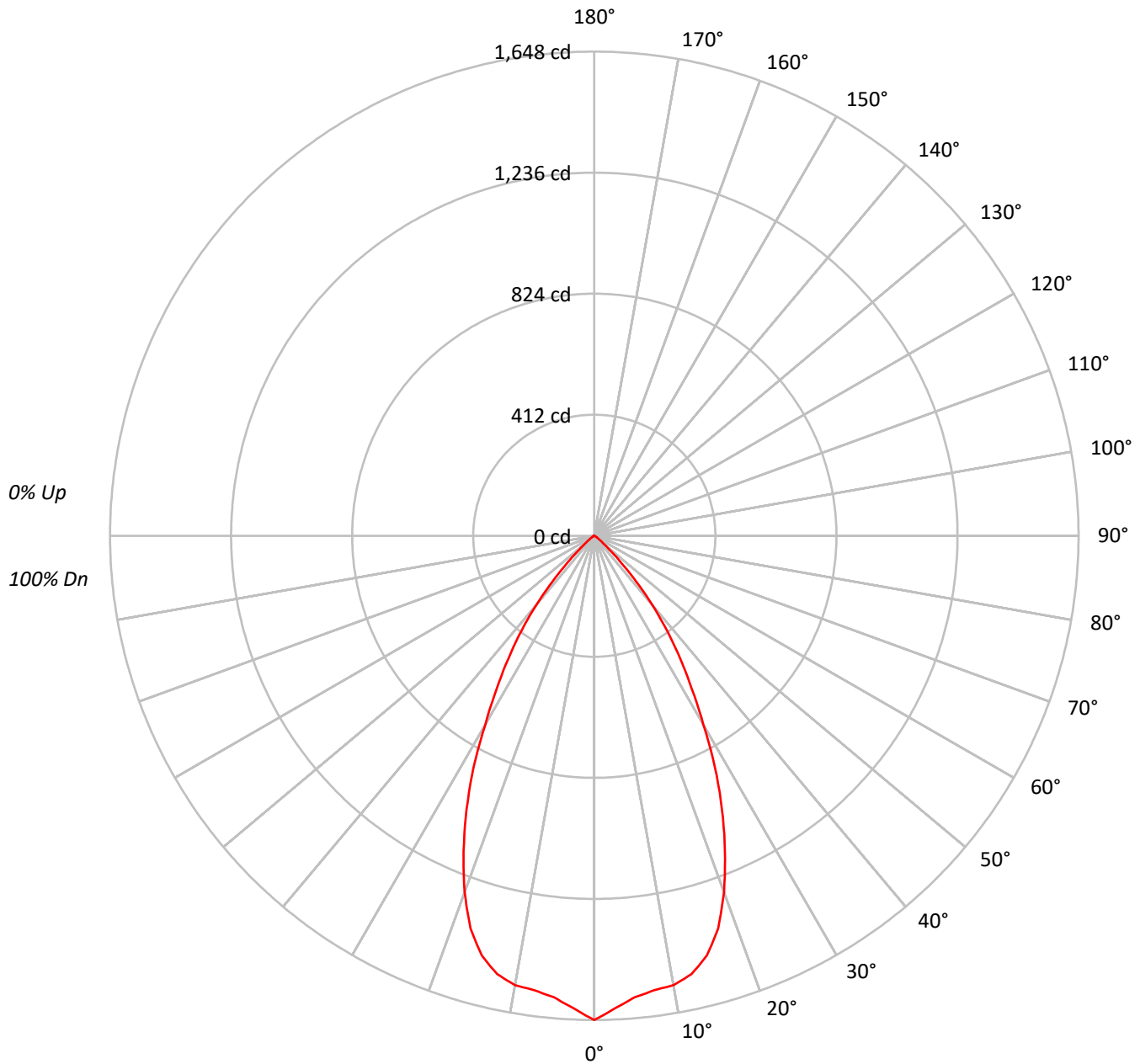
Downlight



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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	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71
6	88	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67
7	83	74	68	64	82	73	67	63	72	67	63	71	66	63	70	65	62
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	62	58
9	75	66	60	56	74	65	59	55	64	59	55	63	58	55	62	58	55
10	72	62	56	52	71	61	56	52	61	56	52	60	55	52	59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	180084
5°	172929
10°	172277
15°	167331
20°	150039
25°	124004
30°	93664
35°	67918
40°	43459
45°	19856
50°	6493
55°	2800
60°	1202
65°	155
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19856 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	10.2
10°-20°	409.5	27.9
20°-30°	466.6	31.7
30°-40°	317.7	21.6
40°-50°	109.5	7.4
50°-60°	15.1	1.0
60°-70°	1.5	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°	1026.1	69.8
0°-40°	1343.8	91.4
0°-60°	1468.4	99.9
0°-90°	1469.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1469.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1648	
5°	1577	150
15°	1479	409
25°	1029	467
35°	509	318
45°	128	109
55°	15	15
65°	1	1
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1648.2
2.5°	1610.4
5°	1576.7
7.5°	1560.2
10°	1552.8
12.5°	1528.3
15°	1479.3
17.5°	1401.5
20°	1290.4
22.5°	1162.1
25°	1028.6
27.5°	889.4
30°	742.4
32.5°	617.8
35°	509.2
37.5°	405.8
40°	304.7
42.5°	211.2
45°	128.5
47.5°	69.2
50°	38.2
52.5°	22.7
55°	14.7
57.5°	9.4
60°	5.5
62.5°	2.5
65°	0.6
67.5°	0.2
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)