

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: P778665

Luminaire Tested: LER4D02D010-EC4DR400210IC9027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D02D010-EC4DR400210IC9027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 40° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 370.9 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 0.68 / 0.68 / 0.6
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 5.1
Input Voltage (V): NR
Input Current (A_{in}): 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



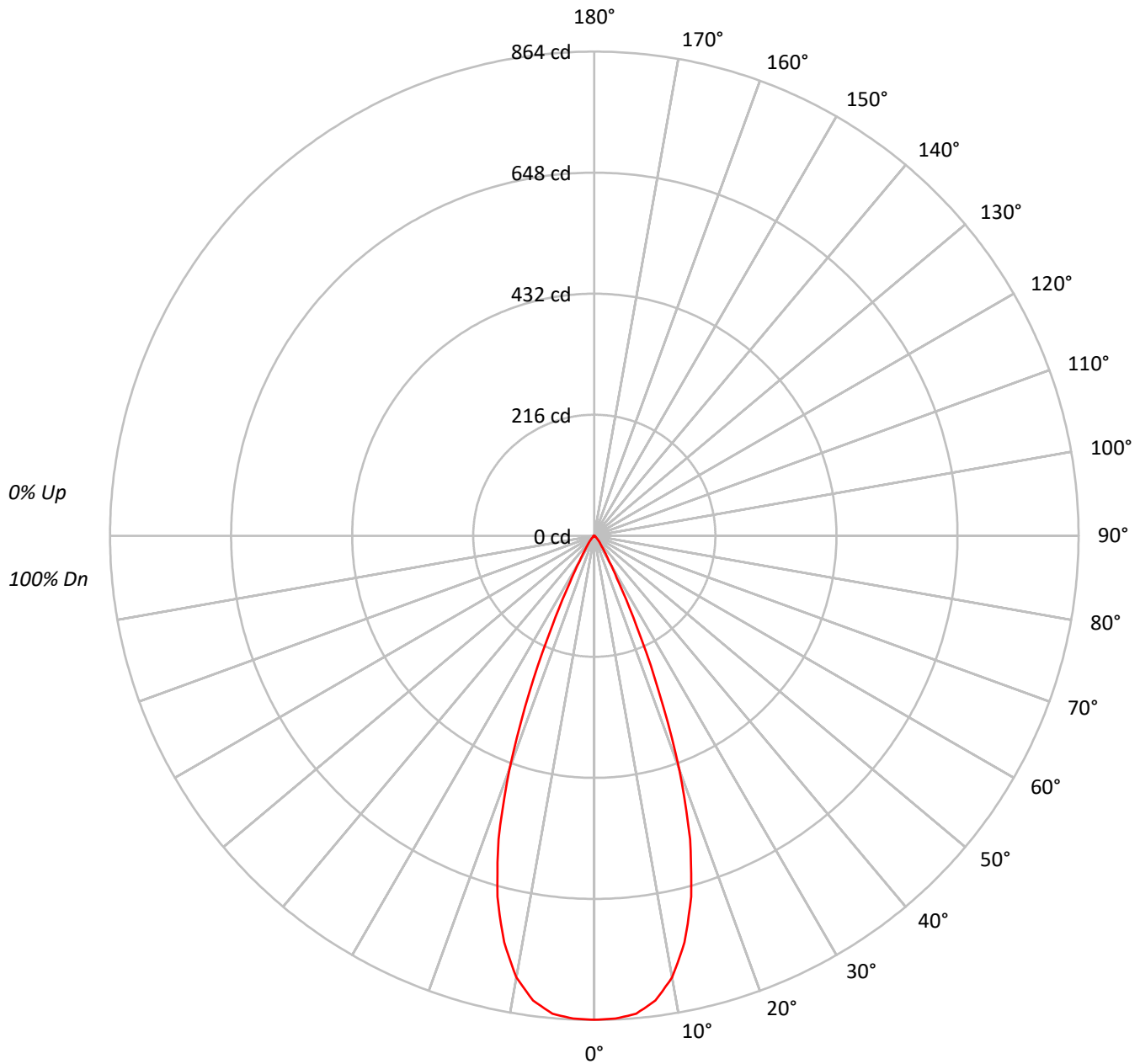
Downlight



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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					0
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	115	112	110	108	112	110	108	107		106	105	103		103	101	100		99	98	97
2	110	106	103	100	108	105	102	99		102	99	97		99	97	95		96	95	93
3	106	101	97	94	104	100	96	93		97	94	92		95	93	90		93	91	89
4	102	97	92	89	101	95	91	88		93	90	87		92	89	86		90	87	85
5	99	92	88	84	97	91	87	84		90	86	83		88	85	83		87	84	82
6	95	88	84	80	94	88	83	80		86	82	80		85	82	79		84	81	79
7	92	85	80	77	91	84	80	77		83	79	76		82	79	76		81	78	76
8	89	82	77	74	88	81	77	74		80	76	73		79	76	73		78	75	73
9	86	79	74	71	85	78	74	71		77	73	71		76	73	70		76	72	70
10	83	76	71	68	82	75	71	68		75	71	68		74	70	68		73	70	68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	94358
5°	93895
10°	88757
15°	75448
20°	51427
25°	21459
30°	6750
35°	3134
40°	1726
45°	803
50°	391
55°	210
60°	109
65°	52
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 803 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.9	21.6
10°-20°	179.1	48.3
20°-30°	89.6	24.2
30°-40°	16.4	4.4
40°-50°	4.5	1.2
50°-60°	1.1	0.3
60°-70°	0.2	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°	348.7	94.0
0°-40°	365.1	98.4
0°-60°	370.7	99.9
0°-90°	370.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	370.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	864	
5°	856	80
15°	667	179
25°	178	90
35°	24	16
45°	5	5
55°	1	1
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	863.6
2.5°	862.3
5°	856.1
7.5°	836.3
10°	800.0
12.5°	743.2
15°	667.0
17.5°	567.9
20°	442.3
22.5°	301.5
25°	178.0
27.5°	94.1
30°	53.5
32.5°	34.5
35°	23.5
37.5°	16.8
40°	12.1
42.5°	8.3
45°	5.2
47.5°	3.3
50°	2.3
52.5°	1.6
55°	1.1
57.5°	0.7
60°	0.5
62.5°	0.3
65°	0.2
67.5°	0.1
70°	0.1
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)