

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: P778761

Luminaire Tested: LER4D02D010-EC4DR600210IC9027-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P778761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D02D010-EC4DR600210IC9027-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 356.3 lumens
Efficiency: N/A
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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



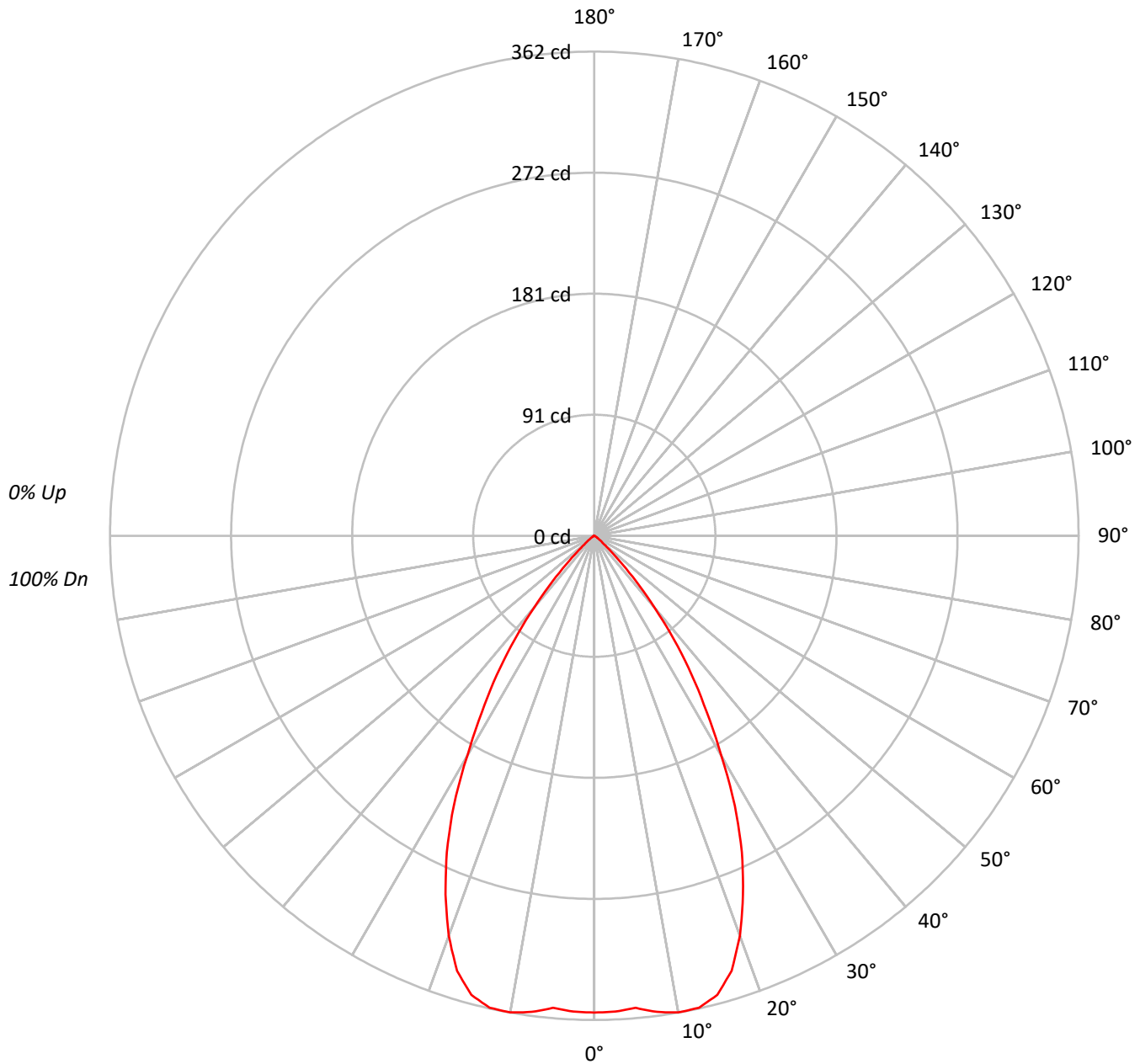
Downlight



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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				10				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94						
2	108	103	99	96	106	101	98	95	98	95	92	95	93	90	92	90	89	87						
3	102	96	91	87	100	95	90	86	92	88	85	90	86	84	87	85	82	81						
4	97	90	84	80	95	88	83	79	86	82	78	84	81	78	82	79	77	75						
5	92	84	78	74	91	83	77	73	81	76	73	79	75	72	78	74	71	70						
6	87	79	73	68	86	78	72	68	76	71	68	75	70	67	74	70	67	65						
7	83	74	68	63	82	73	67	63	72	67	63	71	66	63	69	65	62	61						
8	79	69	63	59	78	69	63	59	68	63	59	67	62	59	66	61	58	57						
9	75	65	59	55	74	65	59	55	64	59	55	63	58	55	62	58	55	53						
10	72	62	56	52	71	61	56	52	61	55	52	60	55	52	59	55	52	50						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	38951
5°	38859
10°	40151
15°	40190
20°	36986
25°	31453
30°	23971
35°	16953
40°	9956
45°	4017
50°	1343
55°	648
60°	262
65°	52
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4017 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.2	9.6
10°-20°	98.4	27.6
20°-30°	117.8	33.1
30°-40°	78.8	22.1
40°-50°	23.4	6.6
50°-60°	3.4	0.9
60°-70°	0.3	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°	250.4	70.3
0°-40°	329.2	92.4
0°-60°	356.0	99.9
0°-90°	356.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	356.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	356	
5°	354	34
15°	355	98
25°	261	118
35°	127	79
45°	26	23
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	356.5
2.5°	356.1
5°	354.3
7.5°	359.1
10°	361.9
12.5°	361.4
15°	355.3
17.5°	341.0
20°	318.1
22.5°	290.5
25°	260.9
27.5°	227.6
30°	190.0
32.5°	156.4
35°	127.1
37.5°	97.7
40°	69.8
42.5°	46.0
45°	26.0
47.5°	13.3
50°	7.9
52.5°	5.1
55°	3.4
57.5°	2.2
60°	1.2
62.5°	0.5
65°	0.2
67.5°	0.1
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)