

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: P779419

Luminaire Tested: LER4D08D010-EC4DR650210IC9035-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P779419
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: LER4D08D010-EC4DR650210IC9035-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 691.6 lumens
Efficiency: N/A
Efficacy: 77.7 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): 8.9
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



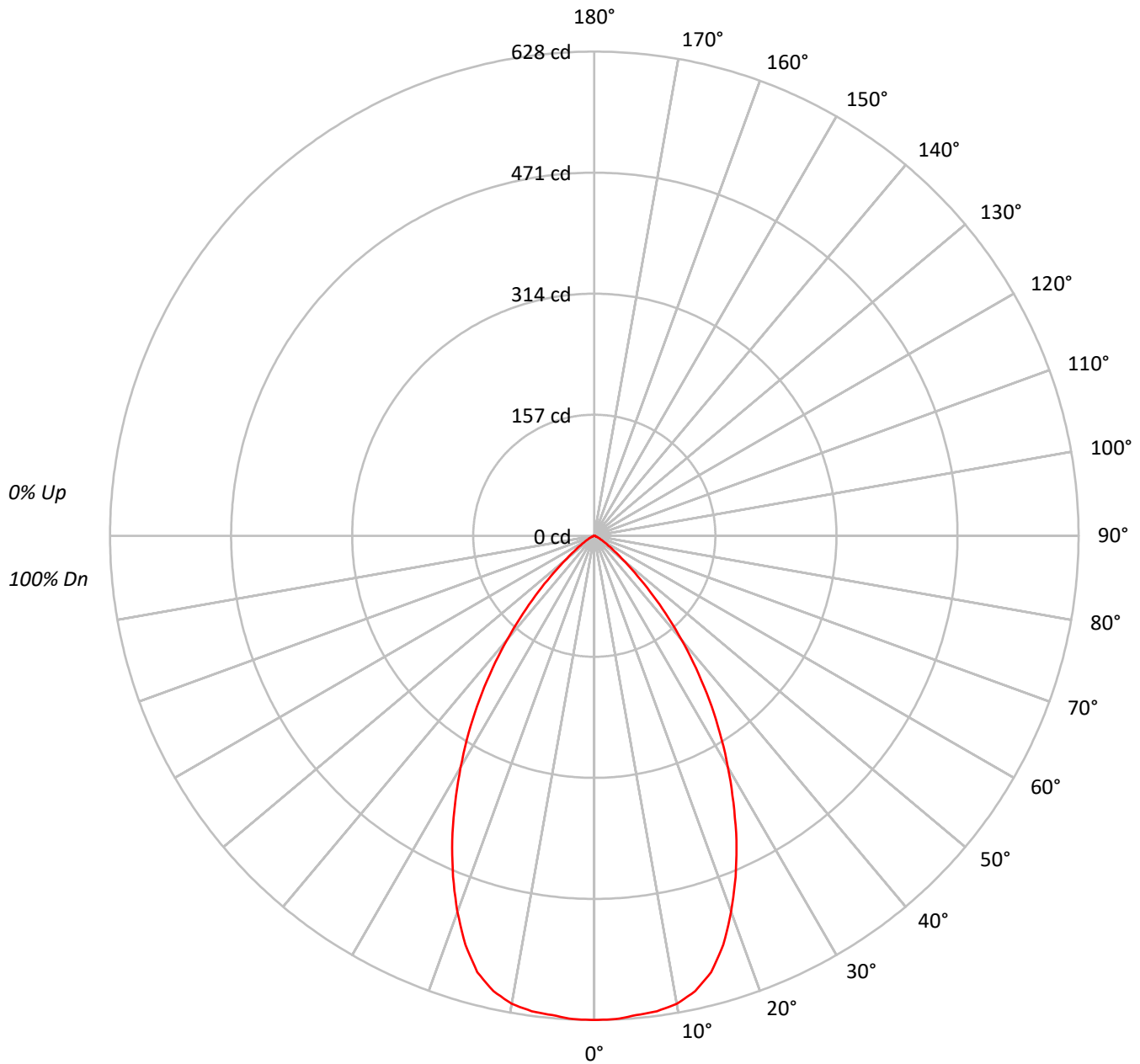
Downlight



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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				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	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93						
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85						
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78						
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72						
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66						
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61						
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56						
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52						
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49						
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	36678
5°	36589
10°	36556
15°	35426
20°	32251
25°	28103
30°	23374
35°	18523
40°	13365
45°	8450
50°	4407
55°	2342
60°	1226
65°	677
70°	290
75°	316
80°	202
85°	201

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8450 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	8.6
10°-20°	162.6	23.5
20°-30°	198.8	28.7
30°-40°	161.3	23.3
40°-50°	80.4	11.6
50°-60°	22.4	3.2
60°-70°	5.1	0.7
70°-80°	1.3	0.2
80°-90°	0.4	0.1
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°	420.8	60.8
0°-40°	582.1	84.2
0°-60°	684.9	99.0
0°-90°	691.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	691.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	628	
5°	624	59
15°	586	163
25°	436	199
35°	260	161
45°	102	80
55°	23	22
65°	5	5
75°	1	1
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	628.0
2.5°	627.6
5°	624.1
7.5°	622.0
10°	616.4
12.5°	604.9
15°	585.9
17.5°	556.2
20°	518.9
22.5°	478.7
25°	436.1
27.5°	390.6
30°	346.6
32.5°	303.1
35°	259.8
37.5°	216.5
40°	175.3
42.5°	136.8
45°	102.3
47.5°	71.2
50°	48.5
52.5°	33.4
55°	23.0
57.5°	15.5
60°	10.5
62.5°	7.3
65°	4.9
67.5°	2.5
70°	1.7
72.5°	1.5
75°	1.4
77.5°	0.9
80°	0.6
82.5°	0.5
85°	0.3
87.5°	0.2
90°	0.0



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— 0°-180°







(END OF REPORT)