

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: P779735

Luminaire Tested: LER4D10D010-EC4DR650210IC9040-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P779735
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: LER4D10D010-EC4DR650210IC9040-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 950.2 lumens
Efficiency: N/A
Efficacy: 81.2 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): 11.7
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



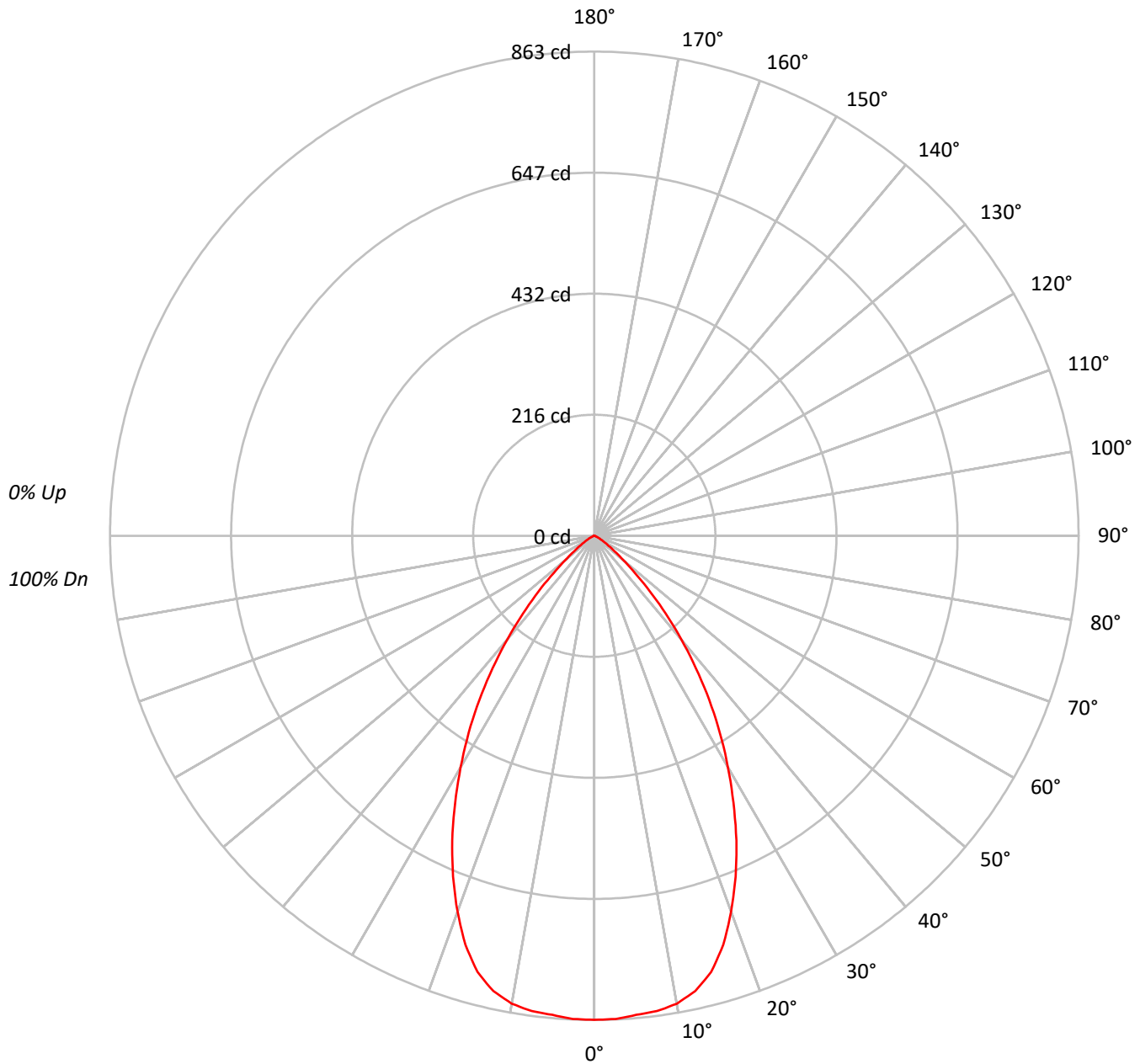
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	50391
5°	50261
10°	50219
15°	48668
20°	44308
25°	38613
30°	32114
35°	25446
40°	18366
45°	11605
50°	6051
55°	3218
60°	1682
65°	926
70°	393
75°	429
80°	303
85°	268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11605 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	8.6
10°-20°	223.4	23.5
20°-30°	273.1	28.7
30°-40°	221.6	23.3
40°-50°	110.4	11.6
50°-60°	30.8	3.2
60°-70°	7.0	0.7
70°-80°	1.8	0.2
80°-90°	0.4	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°	578.1	60.8
0°-40°	799.7	84.2
0°-60°	940.9	99.0
0°-90°	950.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	950.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	863	
5°	857	82
15°	805	223
25°	599	273
35°	357	222
45°	140	110
55°	32	31
65°	7	7
75°	2	2
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	862.8
2.5°	862.1
5°	857.3
7.5°	854.6
10°	846.8
12.5°	831.1
15°	804.9
17.5°	764.1
20°	712.9
22.5°	657.6
25°	599.2
27.5°	536.7
30°	476.2
32.5°	416.5
35°	356.9
37.5°	297.4
40°	240.9
42.5°	187.9
45°	140.5
47.5°	97.9
50°	66.6
52.5°	45.9
55°	31.6
57.5°	21.3
60°	14.4
62.5°	10.0
65°	6.7
67.5°	3.4
70°	2.3
72.5°	2.2
75°	1.9
77.5°	1.3
80°	0.9
82.5°	0.6
85°	0.4
87.5°	0.2
90°	0.0



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— 0°-180°







(END OF REPORT)