

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: P780047

Luminaire Tested: LER4D15D010-EC4DR650215IC9040-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780047
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: LER4D15D010-EC4DR650215IC9040-4LBS1MW
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: 1276.9 lumens
Efficiency: N/A
Efficacy: 80.8 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): 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



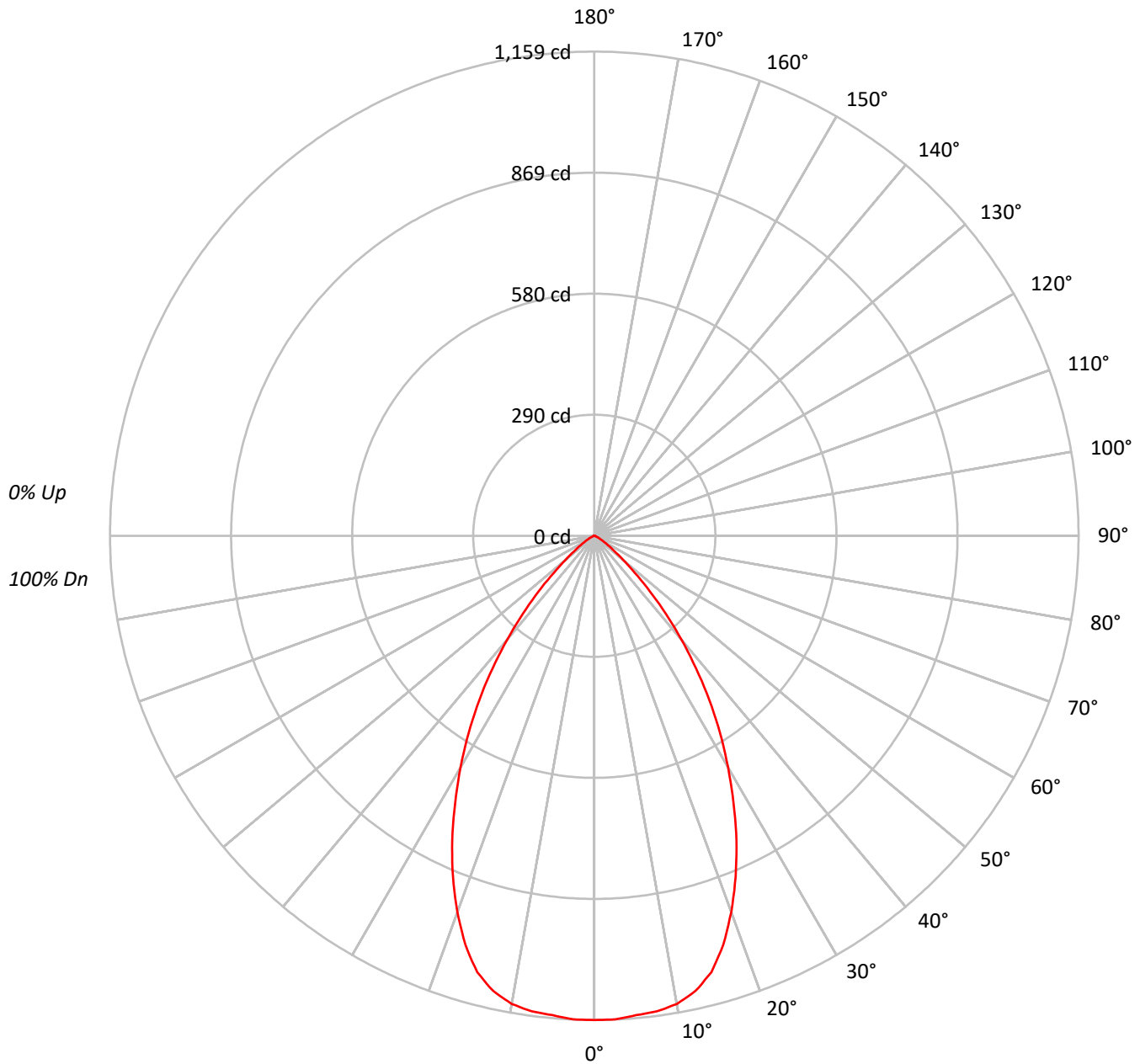
Downlight



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	113	110	107	105	111	108	105	103	104	102	100		100	99	97		97
2	107	102	97	94	105	100	96	92	97	93	90		94	91	88		91
3	101	94	88	84	99	92	87	83	90	86	82		87	84	81		85
4	95	87	81	76	93	86	80	76	84	79	75		82	77	74		80
5	90	81	74	70	88	80	74	69	78	73	69		76	72	68		75
6	85	75	69	64	83	74	68	64	73	67	63		71	67	63		70
7	80	70	64	59	79	69	63	59	68	63	59		67	62	58		66
8	76	66	59	55	75	65	59	55	64	58	54		63	58	54		62
9	72	61	55	51	71	61	55	51	60	54	51		59	54	50		58
10	68	58	52	47	67	57	51	47	57	51	47		56	51	47		55

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	67708
5°	67538
10°	67483
15°	65404
20°	59542
25°	51888
30°	43154
35°	34195
40°	24679
45°	15594
50°	8123
55°	4317
60°	2266
65°	1258
70°	529
75°	587
80°	404
85°	335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15594 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	8.6
10°-20°	300.2	23.5
20°-30°	367.0	28.7
30°-40°	297.8	23.3
40°-50°	148.4	11.6
50°-60°	41.4	3.2
60°-70°	9.4	0.7
70°-80°	2.5	0.2
80°-90°	0.6	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°	776.9	60.8
0°-40°	1074.6	84.2
0°-60°	1264.4	99.0
0°-90°	1276.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1159	
5°	1152	110
15°	1082	300
25°	805	367
35°	480	298
45°	189	148
55°	42	41
65°	9	9
75°	3	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1159.3
2.5°	1158.5
5°	1152.0
7.5°	1148.3
10°	1137.9
12.5°	1116.7
15°	1081.7
17.5°	1026.8
20°	958.0
22.5°	883.7
25°	805.2
27.5°	721.2
30°	639.9
32.5°	559.7
35°	479.6
37.5°	399.7
40°	323.7
42.5°	252.5
45°	188.8
47.5°	131.5
50°	89.4
52.5°	61.6
55°	42.4
57.5°	28.6
60°	19.4
62.5°	13.5
65°	9.1
67.5°	4.6
70°	3.1
72.5°	2.9
75°	2.6
77.5°	1.7
80°	1.2
82.5°	0.9
85°	0.5
87.5°	0.3
90°	0.0



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— 0°-180°







(END OF REPORT)