

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: P780035

Luminaire Tested: LER4D15D010-EC4DR650215IC9027-4LBS1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P780035
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-EC4DR650215IC9027-4LBS1MW
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1139.9 lumens
Efficiency: N/A
Efficacy: 72.1 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



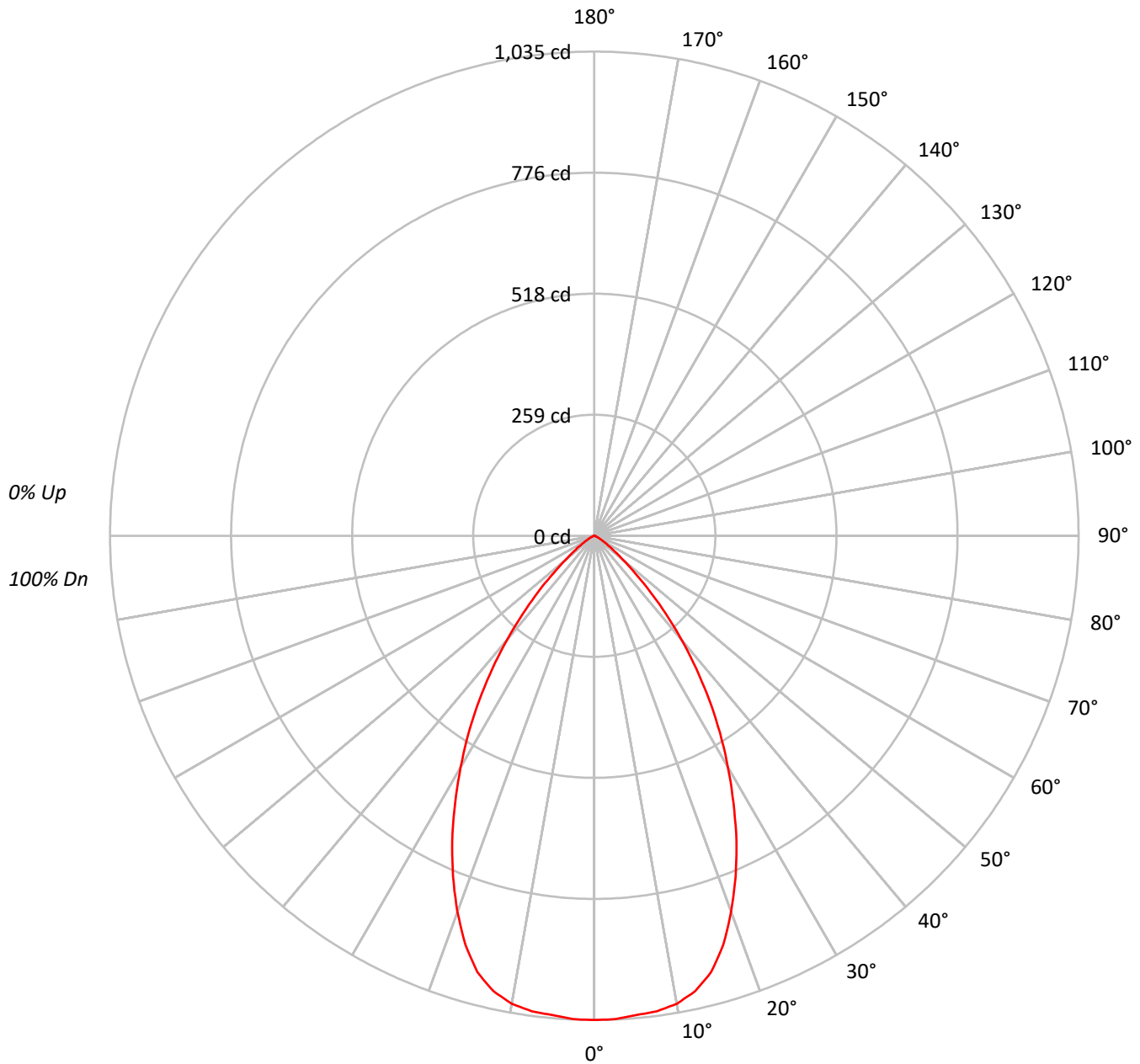
Downlight



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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°	60448
5°	60292
10°	60242
15°	58384
20°	53152
25°	46321
30°	38521
35°	30523
40°	22026
45°	13917
50°	7260
55°	3859
60°	2032
65°	1119
70°	478
75°	519
80°	370
85°	335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13917 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.9	8.6
10°-20°	268.0	23.5
20°-30°	327.6	28.7
30°-40°	265.8	23.3
40°-50°	132.5	11.6
50°-60°	37.0	3.2
60°-70°	8.4	0.7
70°-80°	2.2	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°	693.5	60.8
0°-40°	959.3	84.2
0°-60°	1128.7	99.0
0°-90°	1139.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1139.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1035	
5°	1028	98
15°	966	268
25°	719	328
35°	428	266
45°	168	132
55°	38	37
65°	8	8
75°	2	2
85°	0	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1035.0
2.5°	1034.2
5°	1028.4
7.5°	1025.1
10°	1015.8
12.5°	996.9
15°	965.6
17.5°	916.6
20°	855.2
22.5°	788.9
25°	718.8
27.5°	643.8
30°	571.2
32.5°	499.6
35°	428.1
37.5°	356.8
40°	288.9
42.5°	225.4
45°	168.5
47.5°	117.4
50°	79.9
52.5°	55.1
55°	37.9
57.5°	25.6
60°	17.4
62.5°	12.0
65°	8.1
67.5°	4.1
70°	2.8
72.5°	2.6
75°	2.3
77.5°	1.5
80°	1.1
82.5°	0.7
85°	0.5
87.5°	0.3
90°	0.0



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— 0°-180°







(END OF REPORT)