

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: P785331

Luminaire Tested: LER4DD50D010-EC4DR7040509050-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785331
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4DD50D010-EC4DR7040509050-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4065.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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

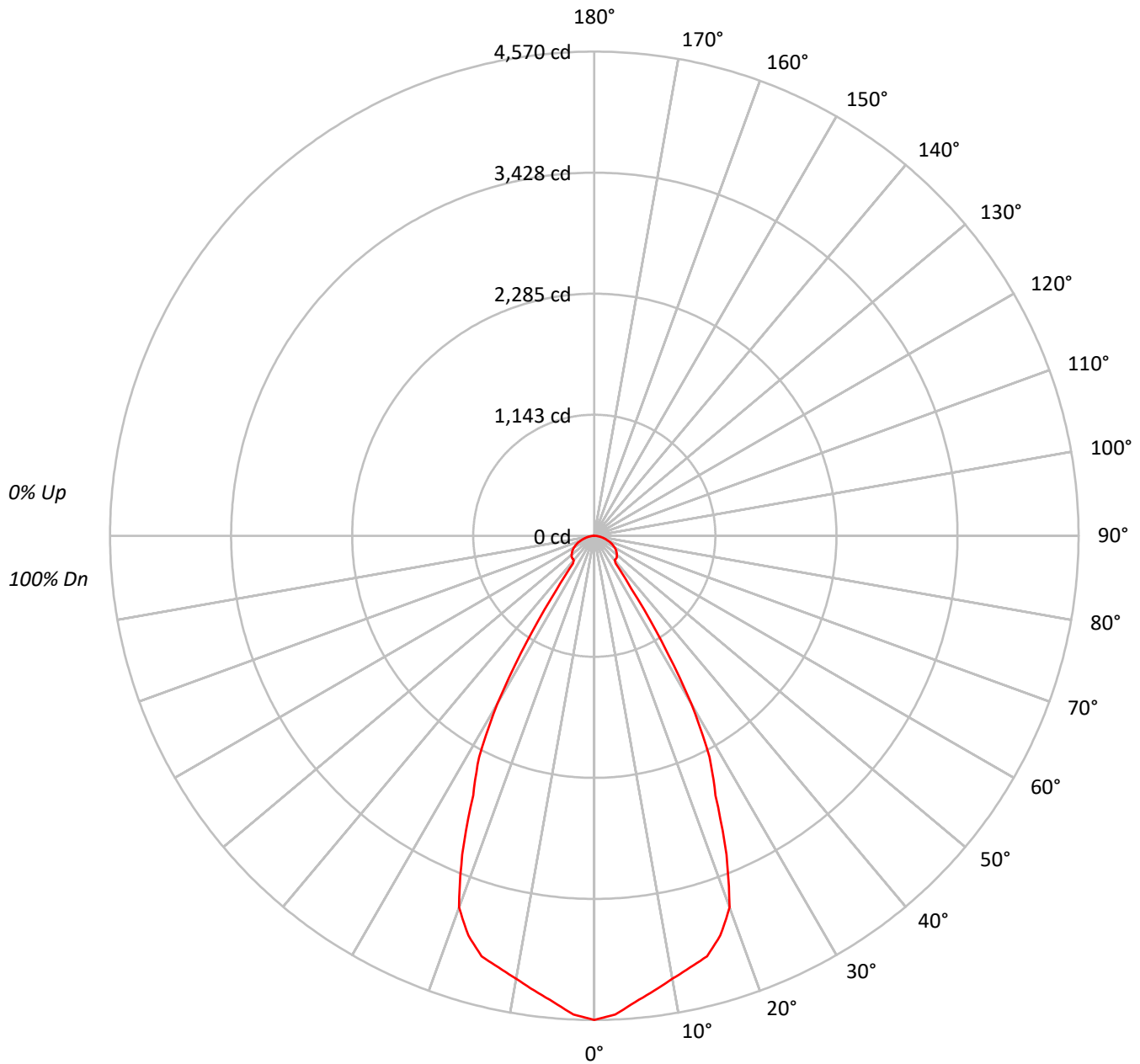


Downlight

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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
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	112	109	106	103	110	107	104	102	103	101	99		99	97	96		95
2	106	100	95	91	103	98	94	90	95	91	88		92	89	86		89
3	100	92	87	82	98	91	86	81	88	84	80		86	82	79		83
4	94	86	80	75	92	85	79	74	82	77	73		80	76	73		78
5	89	80	74	69	87	79	73	69	77	72	68		75	71	67		74
6	85	75	68	64	83	74	68	64	73	67	63		71	66	63		70
7	80	70	64	59	79	70	64	59	68	63	59		67	62	59		66
8	77	66	60	56	75	66	60	56	65	59	55		64	59	55		63
9	73	63	57	52	72	62	56	52	61	56	52		60	55	52		60
10	70	59	53	49	69	59	53	49	58	53	49		57	52	49		57

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	499343
5°	484503
10°	471000
15°	464824
20°	434047
25°	326080
30°	230513
35°	81657
40°	42932
45°	45722
50°	47356
55°	48251
60°	48534
65°	47518
70°	44852
75°	41540
80°	36872
85°	29962

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 48560 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.7	10.3
10°-20°	1142.9	28.1
20°-30°	1258.8	31.0
30°-40°	480.9	11.8
40°-50°	227.1	5.6
50°-60°	225.8	5.6
60°-70°	180.7	4.4
70°-80°	103.9	2.6
80°-90°	28.2	0.7
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°	2818.3	69.3
0°-40°	3299.3	81.2
0°-60°	3752.1	92.3
0°-90°	4065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4065.0	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4570	
5°	4418	417
15°	4109	1143
25°	2705	1259
35°	612	481
45°	296	227
55°	253	226
65°	184	181
75°	98	104
85°	24	28
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4570.2
2.5°	4522.4
5°	4417.5
7.5°	4329.9
10°	4245.3
12.5°	4173.7
15°	4109.3
17.5°	3953.7
20°	3733.0
22.5°	3256.9
25°	2704.8
27.5°	2354.6
30°	1827.1
32.5°	1180.2
35°	612.2
37.5°	330.7
40°	301.0
42.5°	298.8
45°	295.9
47.5°	289.4
50°	278.6
52.5°	266.3
55°	253.3
57.5°	238.8
60°	222.1
62.5°	203.3
65°	183.8
67.5°	162.1
70°	140.4
72.5°	118.7
75°	98.4
77.5°	77.4
80°	58.6
82.5°	41.2
85°	23.9
87.5°	9.4
90°	0.0



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— 0°-180°







(END OF REPORT)