

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: P785319

Luminaire Tested: LER4DD50D010-EC4DR7040509030-4LBDP1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P785319
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-EC4DR7040509030-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3815.7 lumens
Efficiency: N/A
Efficacy: 81.2 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 (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

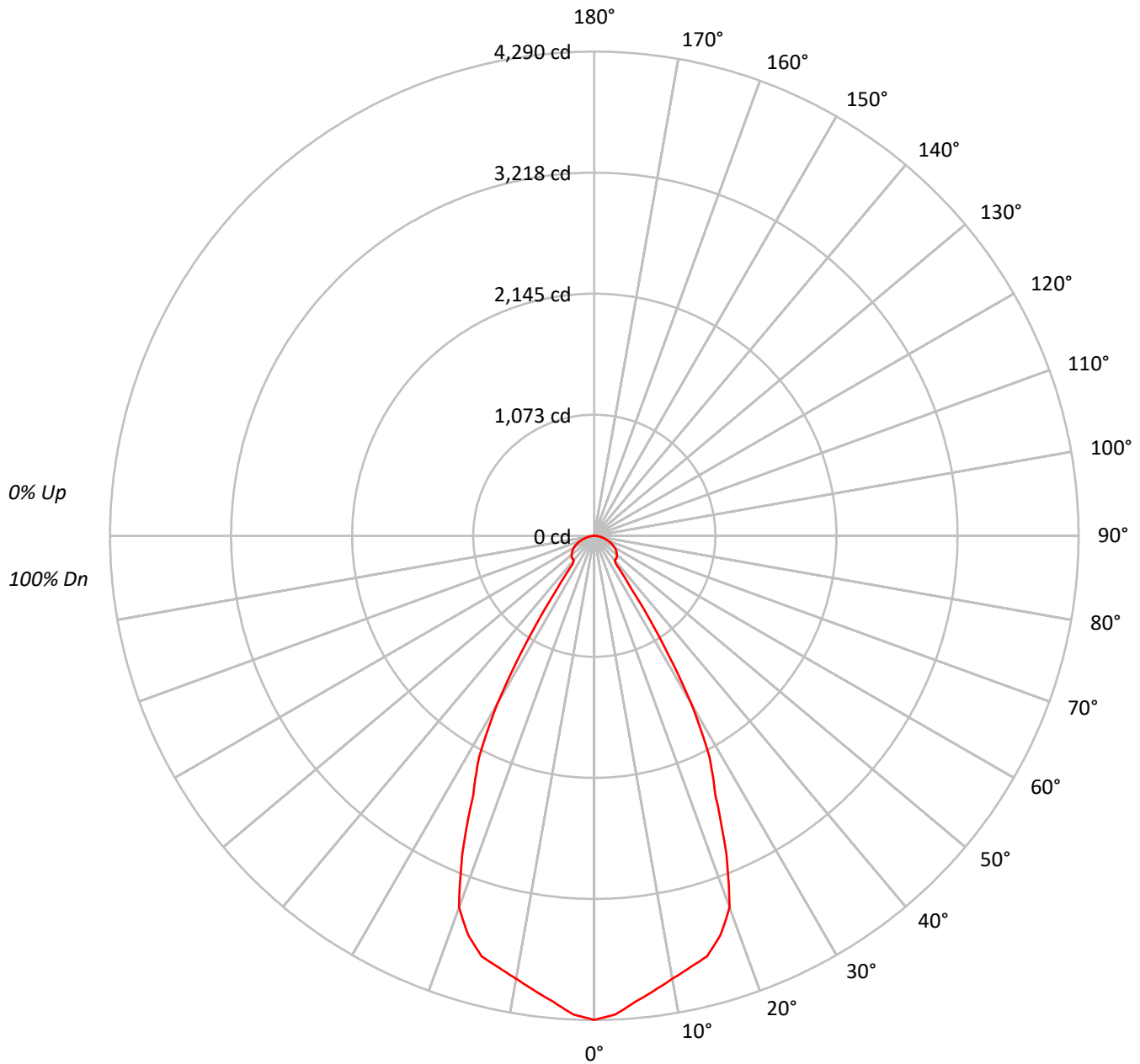


Downlight

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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	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°	468718
5°	454791
10°	442110
15°	436307
20°	407432
25°	306079
30°	216370
35°	76642
40°	40307
45°	42925
50°	44450
55°	45280
60°	45562
65°	44597
70°	42104
75°	39007
80°	34606
85°	28081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 45571 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.1	10.3
10°-20°	1072.8	28.1
20°-30°	1181.6	31.0
30°-40°	451.4	11.8
40°-50°	213.2	5.6
50°-60°	211.9	5.6
60°-70°	169.7	4.4
70°-80°	97.5	2.6
80°-90°	26.5	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°	2645.5	69.3
0°-40°	3096.9	81.2
0°-60°	3522.0	92.3
0°-90°	3815.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3815.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4290	
5°	4147	391
15°	3857	1073
25°	2539	1182
35°	575	451
45°	278	213
55°	238	212
65°	172	170
75°	92	98
85°	22	26
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4289.9
2.5°	4245.1
5°	4146.6
7.5°	4064.4
10°	3984.9
12.5°	3917.7
15°	3857.2
17.5°	3711.2
20°	3504.1
22.5°	3057.1
25°	2538.9
27.5°	2210.2
30°	1715.0
32.5°	1107.8
35°	574.6
37.5°	310.4
40°	282.6
42.5°	280.5
45°	277.8
47.5°	271.7
50°	261.5
52.5°	250.0
55°	237.7
57.5°	224.1
60°	208.5
62.5°	190.9
65°	172.5
67.5°	152.1
70°	131.8
72.5°	111.4
75°	92.4
77.5°	72.7
80°	55.0
82.5°	38.7
85°	22.4
87.5°	8.8
90°	0.0



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— 0°-180°







(END OF REPORT)