

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: P781876

Luminaire Tested: LER4D50D010-EC4DR6540509024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781876
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: LER4D50D010-EC4DR6540509024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3551.3 lumens
Efficiency: N/A
Efficacy: 75.6 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): 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

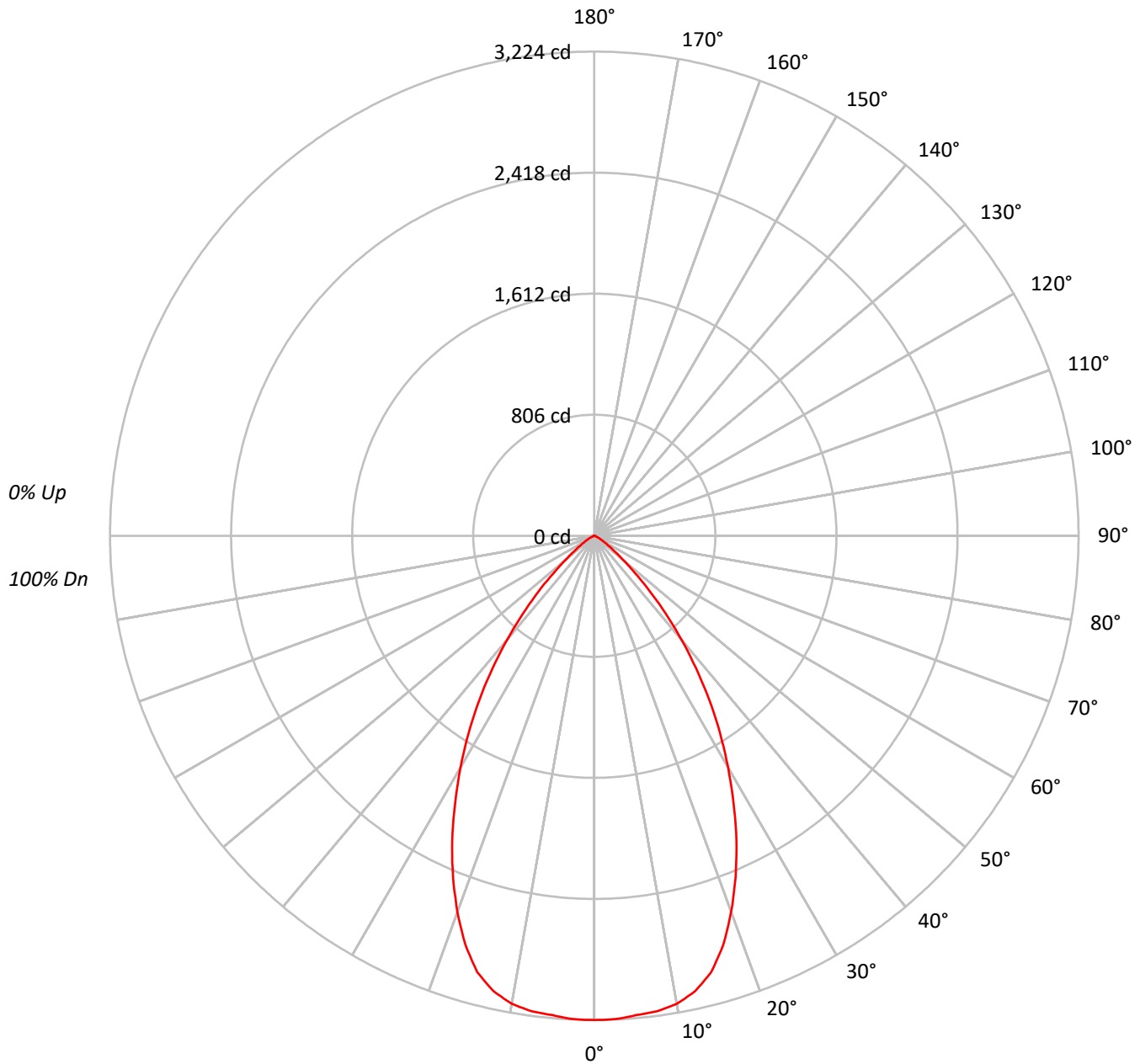


Downlight

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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				0			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																								
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						
1	113	110	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93						
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85						
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78						
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72						
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66						
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61						
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56						
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52						
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49						
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	188323
5°	187847
10°	187688
15°	181900
20°	165598
25°	144310
30°	120028
35°	95104
40°	68640
45°	43363
50°	22606
55°	12015
60°	6308
65°	3469
70°	1451
75°	1602
80°	1110
85°	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 43363 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.9	8.6
10°-20°	835.0	23.5
20°-30°	1020.7	28.7
30°-40°	828.2	23.3
40°-50°	412.7	11.6
50°-60°	115.1	3.2
60°-70°	26.1	0.7
70°-80°	6.8	0.2
80°-90°	1.7	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°	2160.7	60.8
0°-40°	2988.8	84.2
0°-60°	3516.6	99.0
0°-90°	3551.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3551.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3224	
5°	3204	305
15°	3008	835
25°	2239	1021
35°	1334	828
45°	525	413
55°	118	115
65°	25	26
75°	7	7
85°	1	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3224.5
2.5°	3222.1
5°	3204.1
7.5°	3193.7
10°	3164.8
12.5°	3106.0
15°	3008.4
17.5°	2855.9
20°	2664.4
22.5°	2457.8
25°	2239.4
27.5°	2005.8
30°	1779.8
32.5°	1556.6
35°	1333.9
37.5°	1111.6
40°	900.3
42.5°	702.2
45°	525.0
47.5°	365.8
50°	248.8
52.5°	171.5
55°	118.0
57.5°	79.6
60°	54.0
62.5°	37.4
65°	25.1
67.5°	12.8
70°	8.5
72.5°	8.1
75°	7.1
77.5°	4.7
80°	3.3
82.5°	2.4
85°	1.4
87.5°	0.9
90°	0.0



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— 0°-180°







(END OF REPORT)