

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: P781896

Luminaire Tested: LER4D50D010-EC4DR6540509050-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P781896
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-EC4DR6540509050-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4415.2 lumens
Efficiency: N/A
Efficacy: 93.9 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

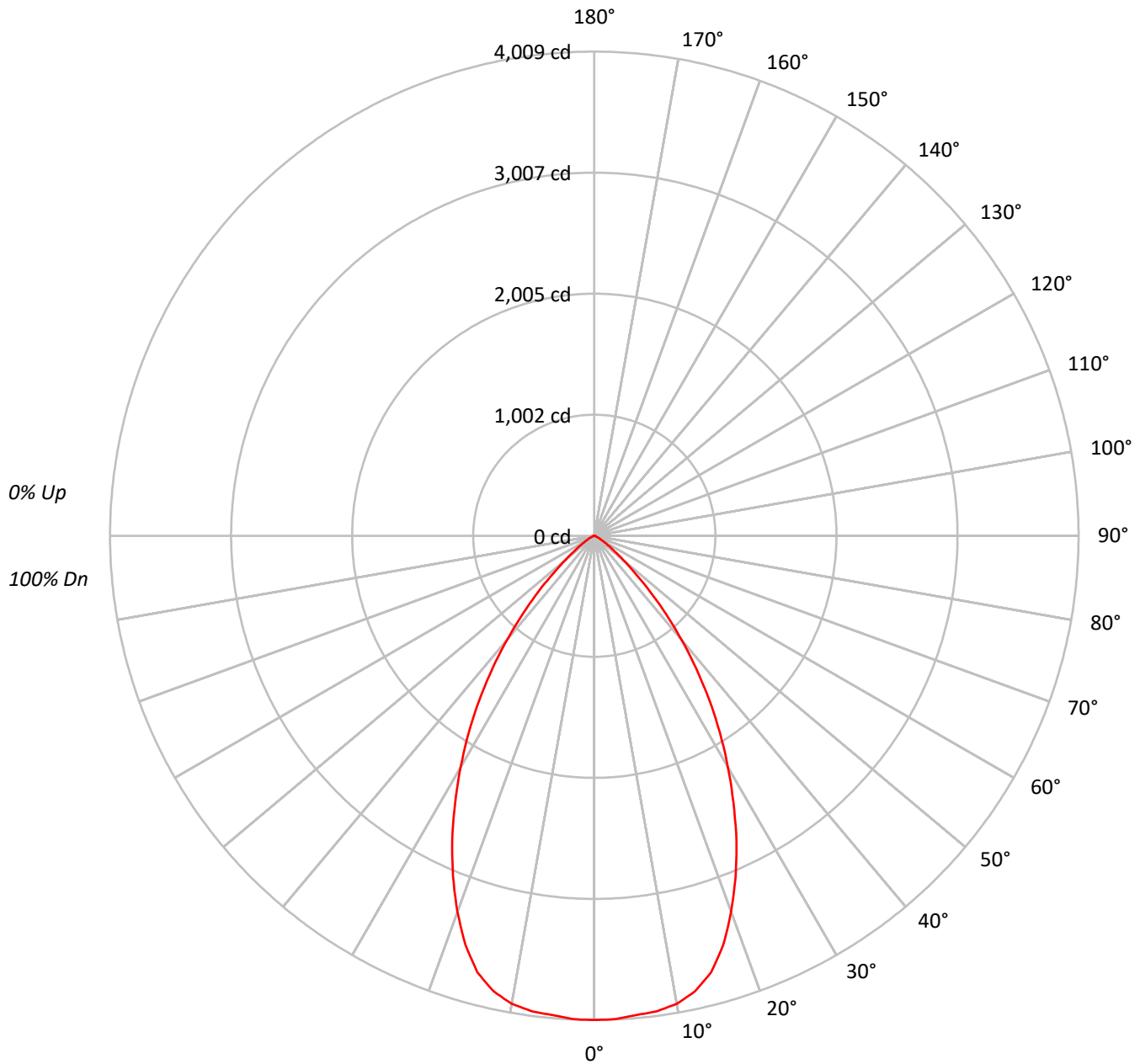


Downlight

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	234135
5°	233546
10°	233347
15°	226154
20°	205885
25°	179412
30°	149222
35°	118233
40°	85336
45°	53910
50°	28103
55°	14938
60°	7849
65°	4312
70°	1810
75°	1986
80°	1379
85°	1206

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 53910 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.1	8.6
10°-20°	1038.2	23.5
20°-30°	1269.0	28.7
30°-40°	1029.6	23.3
40°-50°	513.1	11.6
50°-60°	143.1	3.2
60°-70°	32.5	0.7
70°-80°	8.4	0.2
80°-90°	2.2	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°	2686.3	60.8
0°-40°	3715.9	84.2
0°-60°	4372.1	99.0
0°-90°	4415.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4415.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4009	
5°	3984	379
15°	3740	1038
25°	2784	1269
35°	1658	1030
45°	653	513
55°	147	143
65°	31	33
75°	9	8
85°	2	2
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4008.9
2.5°	4006.0
5°	3983.6
7.5°	3970.6
10°	3934.7
12.5°	3861.6
15°	3740.3
17.5°	3550.6
20°	3312.6
22.5°	3055.7
25°	2784.1
27.5°	2493.7
30°	2212.7
32.5°	1935.2
35°	1658.3
37.5°	1382.1
40°	1119.3
42.5°	873.1
45°	652.7
47.5°	454.8
50°	309.3
52.5°	213.3
55°	146.7
57.5°	99.0
60°	67.2
62.5°	46.5
65°	31.2
67.5°	15.9
70°	10.6
72.5°	10.0
75°	8.8
77.5°	5.9
80°	4.1
82.5°	2.9
85°	1.8
87.5°	1.2
90°	0.0



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— 0°-180°







(END OF REPORT)