

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: P781748

Luminaire Tested: LER4D50D010-EC4DR3540509040-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR3540509040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 35° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4788.4 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 0.6 / 0.6 / 0.54
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

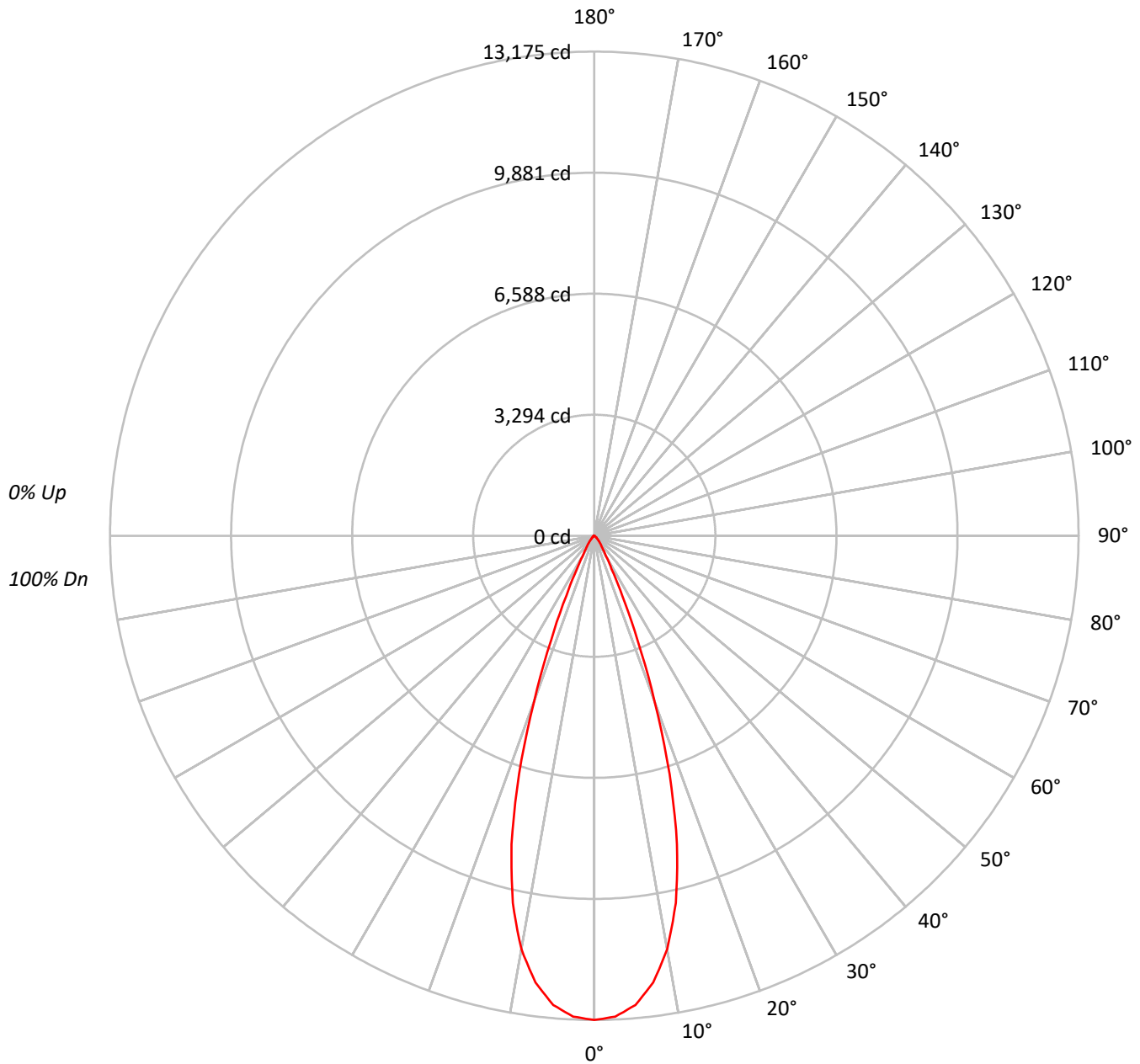


Downlight

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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				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	115	112	110	108	112	110	108	107	106	105	103	103	101	100	99	98	98	96						
2	110	106	103	101	108	105	102	99	102	99	97	99	97	95	96	95	93	92						
3	106	101	97	94	105	100	96	93	97	95	92	95	93	91	93	91	89	88						
4	103	97	92	89	101	96	92	89	94	90	88	92	89	87	90	88	86	84						
5	99	93	88	85	98	92	87	84	90	86	84	89	85	83	87	84	82	81						
6	96	89	84	81	94	88	84	81	87	83	80	85	82	80	84	81	79	78						
7	93	85	81	78	91	85	80	77	84	80	77	83	79	77	82	79	76	75						
8	90	82	78	74	88	82	77	74	81	77	74	80	76	74	79	76	73	72						
9	87	79	75	72	86	79	75	72	78	74	71	77	74	71	77	73	71	70						
10	84	77	72	69	83	76	72	69	76	72	69	75	71	69	74	71	69	68						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1439554
5°	1405722
10°	1266929
15°	983343
20°	557738
25°	216989
30°	80946
35°	44376
40°	28997
45°	17646
50°	11236
55°	7943
60°	5813
65°	3154
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17646 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1178.8	24.6
10°-20°	2301.5	48.1
20°-30°	938.6	19.6
30°-40°	224.6	4.7
40°-50°	93.6	2.0
50°-60°	38.8	0.8
60°-70°	12.1	0.3
70°-80°	0.3	0.0
80°-90°	0.2	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°	4418.9	92.3
0°-40°	4643.5	97.0
0°-60°	4775.8	99.7
0°-90°	4788.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4788.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	13175	
5°	12817	###
15°	8693	2301
25°	1800	939
35°	333	225
45°	114	94
55°	42	39
65°	12	12
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	13175.4
2.5°	13096.3
5°	12816.8
7.5°	12259.3
10°	11419.3
12.5°	10236.7
15°	8693.3
17.5°	6805.8
20°	4796.8
22.5°	3058.7
25°	1799.9
27.5°	1017.4
30°	641.6
32.5°	450.5
35°	332.7
37.5°	257.2
40°	203.3
42.5°	156.6
45°	114.2
47.5°	85.5
50°	66.1
52.5°	52.5
55°	41.7
57.5°	33.8
60°	26.6
62.5°	19.4
65°	12.2
67.5°	4.3
70°	0.7
72.5°	0.7
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.7
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)