

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: P756374

Luminaire Tested: LD4D95BD010-EU4DR4570959030-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D95BD010-EU4DR4570959030-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9965.8 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 99.2
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

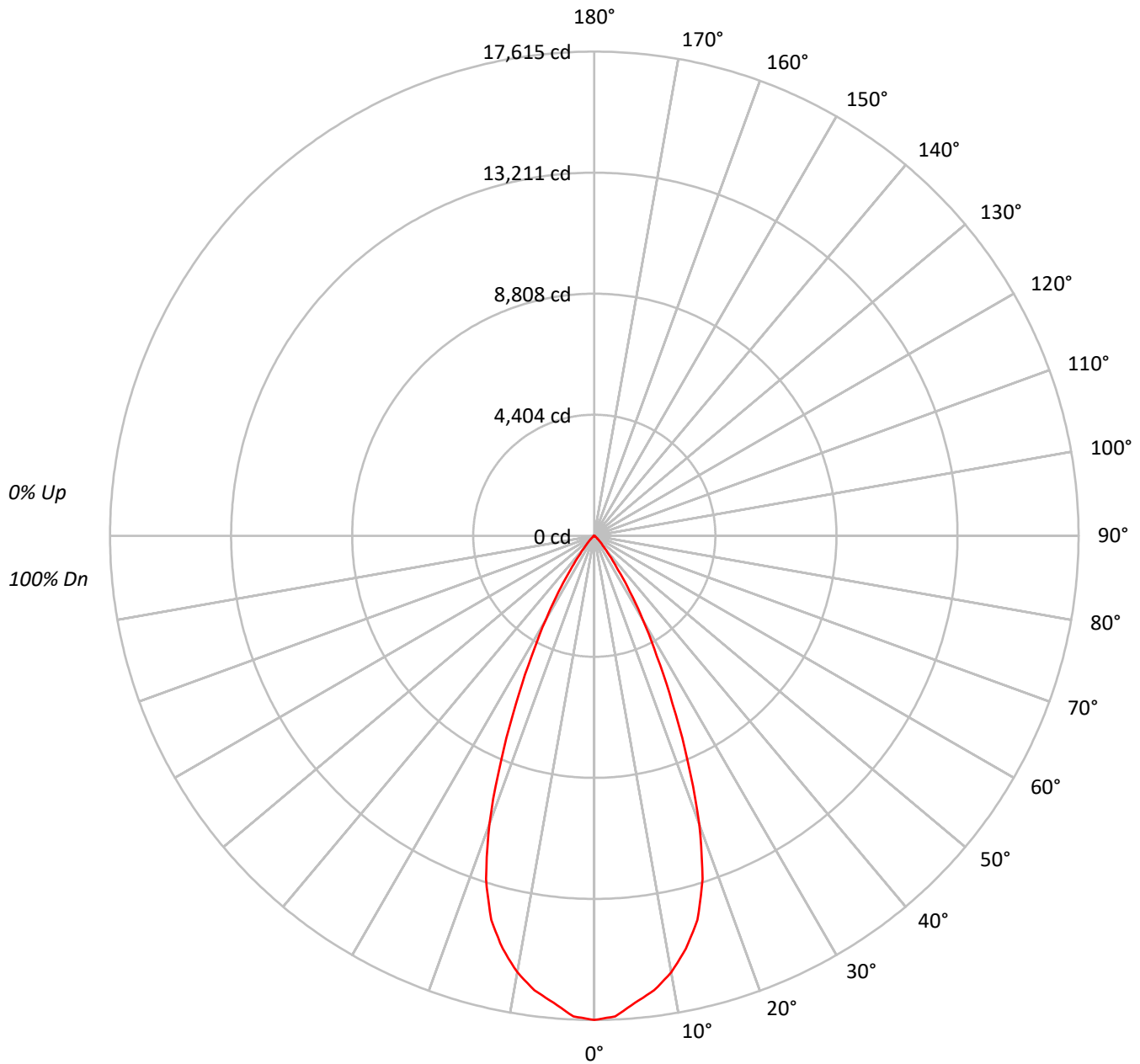


Downlight

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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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95		
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90		
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85		
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81		
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77		
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73		
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69		
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66		
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63		
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1924595
5°	1869803
10°	1788898
15°	1637216
20°	1298873
25°	810907
30°	446947
35°	200688
40°	79045
45°	37254
50°	17661
55°	9239
60°	4545
65°	1086
70°	447
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 37254 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1601.8	16.1
10°-20°	3942.3	39.6
20°-30°	3121.9	31.3
30°-40°	1039.6	10.4
40°-50°	206.3	2.1
50°-60°	46.9	0.5
60°-70°	6.8	0.1
70°-80°	0.2	0.0
80°-90°	0.0	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°	8666.0	87.0
0°-40°	9705.6	97.4
0°-60°	9958.9	99.9
0°-90°	9965.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9965.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	17615	
5°	17048	###
15°	14474	3942
25°	6726	3122
35°	1505	1040
45°	241	206
55°	48	47
65°	4	7
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	17614.7
2.5°	17499.7
5°	17048.1
7.5°	16675.4
10°	16124.0
12.5°	15389.7
15°	14473.9
17.5°	13096.7
20°	11170.9
22.5°	8876.6
25°	6726.4
27.5°	4925.3
30°	3542.6
32.5°	2409.3
35°	1504.6
37.5°	892.2
40°	554.2
42.5°	364.4
45°	241.1
47.5°	155.2
50°	103.9
52.5°	69.3
55°	48.5
57.5°	31.9
60°	20.8
62.5°	11.1
65°	4.2
67.5°	1.4
70°	1.4
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)