

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: P742975

Luminaire Tested: LD4D15D010-EU4DR2015309027-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P742975
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D15D010-EU4DR2015309027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1101.5 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
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



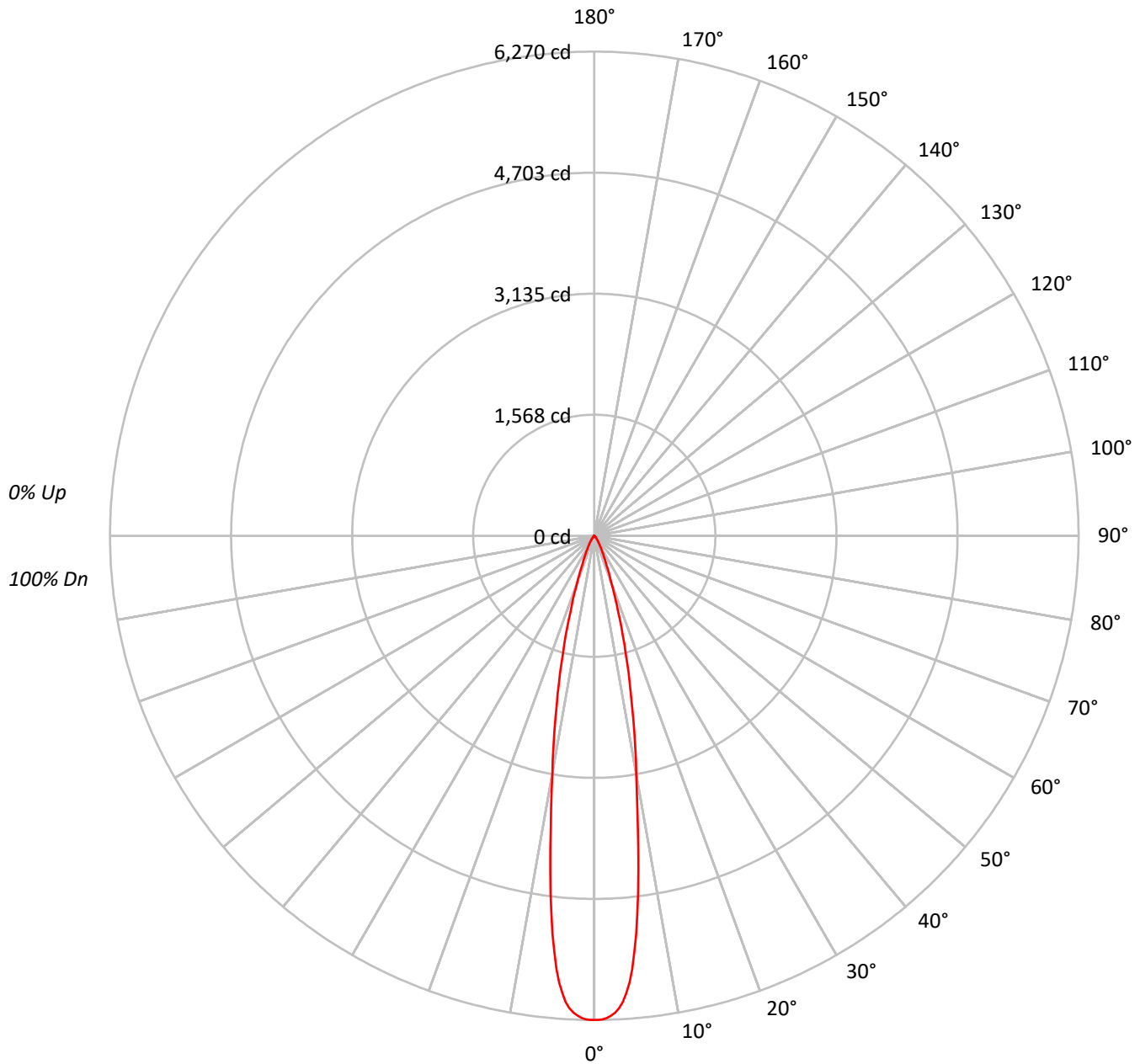
Downlight



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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	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97						
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94						
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91						
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88						
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85						
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83						
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81						
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79						
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77						
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75						

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	685032
5°	618025
10°	346874
15°	176324
20°	74647
25°	34455
30°	18243
35°	9830
40°	5249
45°	3106
50°	1802
55°	952
60°	612
65°	440
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3106 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.4	40.5
10°-20°	439.6	39.9
20°-30°	143.6	13.0
30°-40°	48.9	4.4
40°-50°	16.4	1.5
50°-60°	4.9	0.4
60°-70°	1.6	0.1
70°-80°	0.1	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°	1029.5	93.5
0°-40°	1078.4	97.9
0°-60°	1099.8	99.8
0°-90°	1101.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1101.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6270	
5°	5635	446
15°	1559	440
25°	286	144
35°	74	49
45°	20	16
55°	5	5
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6269.7
0.5°	6269.7
1°	6261.9
1.5°	6246.3
2°	6217.8
2.5°	6179.8
3°	6126.2
3.5°	6051.4
4°	5940.3
4.5°	5805.2
5°	5634.9
5.5°	5411.0
6°	5181.6
6.5°	4918.6
7°	4661.2
7.5°	4359.8
8°	4090.7
8.5°	3819.9
9°	3569.8
9.5°	3340.3
10°	3126.5
12.5°	2244.9
15°	1558.8
17.5°	1018.3
20°	642.0
22.5°	415.9
25°	285.8
27.5°	201.0
30°	144.6
32.5°	103.8
35°	73.7
37.5°	51.4
40°	36.8
42.5°	26.8
45°	20.1
47.5°	15.6
50°	10.6
52.5°	6.7
55°	5.0
57.5°	3.9
60°	2.8
62.5°	2.2
65°	1.7



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CANDELA DISTRIBUTION (continued):

	0°
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°







67.5°	1.1
70°	0.6



(END OF REPORT)