

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: P743012

Luminaire Tested: LD4D15D010-EU4DR2015309040-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743012
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-EU4DR2015309040-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1233.9 lumens
Efficiency: N/A
Efficacy: 78.1 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



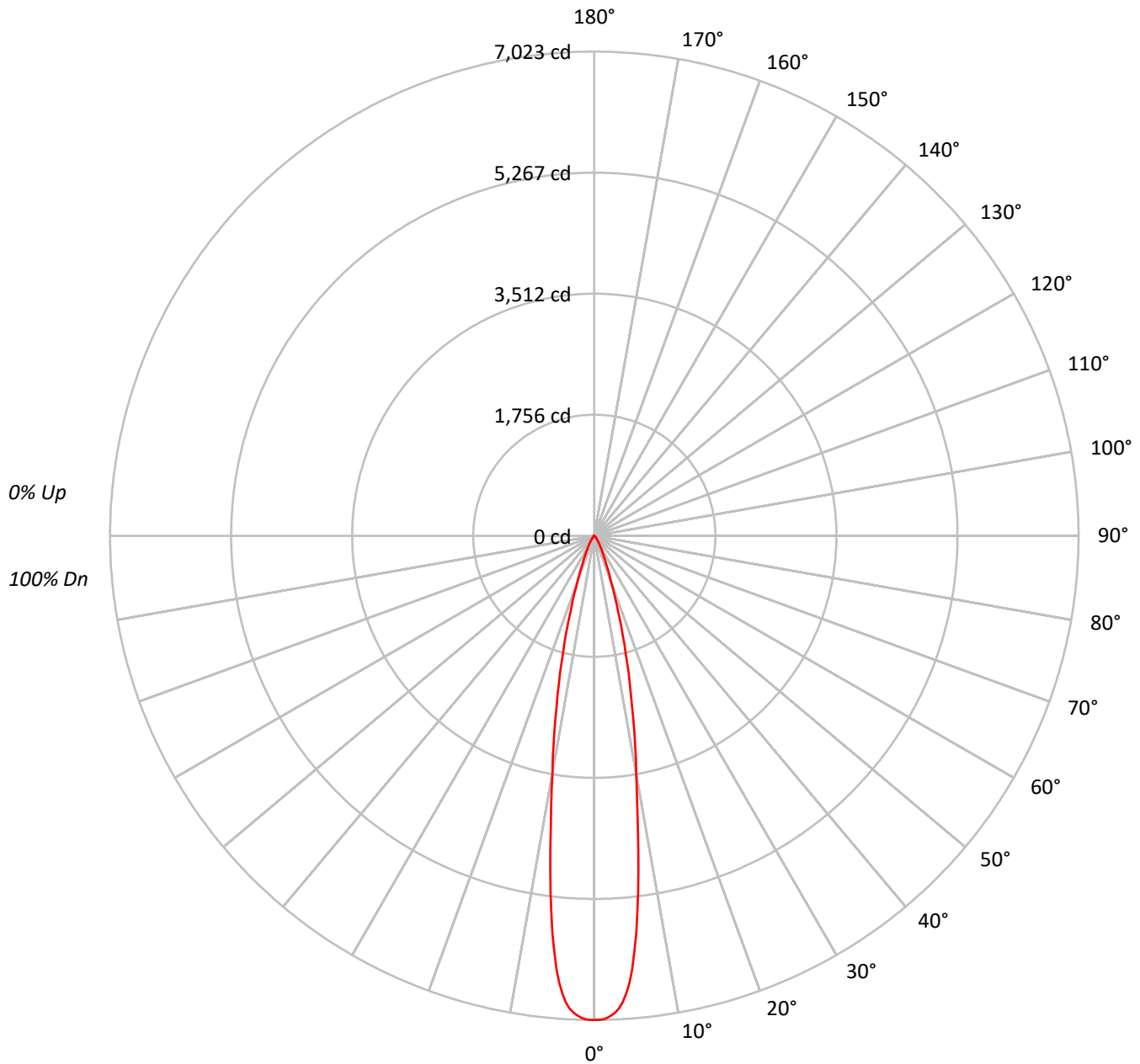
Downlight



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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	100	100	100			
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	97	97	97	97			
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	94	94	94	94			
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	91	91	91	91			
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	88	88	88	88			
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	85	85	85	85			
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	83	83	83	83			
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	81	81	81	81			
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	79	79	79	79			
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	77	77	77	77			
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	75	75	75	75			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	767360
5°	692310
10°	388556
15°	197510
20°	83623
25°	38602
30°	20438
35°	11017
40°	5891
45°	3477
50°	2023
55°	1067
60°	677
65°	491
70°	192
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3477 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.0	40.5
10°-20°	492.4	39.9
20°-30°	160.8	13.0
30°-40°	54.8	4.4
40°-50°	18.4	1.5
50°-60°	5.5	0.4
60°-70°	1.9	0.2
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°	1153.3	93.5
0°-40°	1208.0	97.9
0°-60°	1232.0	99.8
0°-90°	1233.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1233.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	7023	
5°	6312	500
15°	1746	492
25°	320	161
35°	83	55
45°	22	18
55°	6	6
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	7023.2
0.5°	7023.2
1°	7014.5
1.5°	6997.0
2°	6965.1
2.5°	6922.5
3°	6862.5
3.5°	6778.7
4°	6654.2
4.5°	6502.9
5°	6312.2
5.5°	6061.4
6°	5804.3
6.5°	5509.8
7°	5221.5
7.5°	4883.7
8°	4582.3
8.5°	4279.0
9°	3998.8
9.5°	3741.8
10°	3502.2
12.5°	2514.7
15°	1746.1
17.5°	1140.7
20°	719.2
22.5°	465.9
25°	320.2
27.5°	225.1
30°	162.0
32.5°	116.3
35°	82.6
37.5°	57.5
40°	41.3
42.5°	30.0
45°	22.5
47.5°	17.5
50°	11.9
52.5°	7.5
55°	5.6
57.5°	4.4
60°	3.1
62.5°	2.5
65°	1.9



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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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







67.5°	1.3
70°	0.6



(END OF REPORT)