

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: P743961

Luminaire Tested: LD4D20D010-EU4DR2015309027-4LBSQW1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743961
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: LD4D20D010-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: 1512.6 lumens
Efficiency: N/A
Efficacy: 65.5 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): 23.1
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

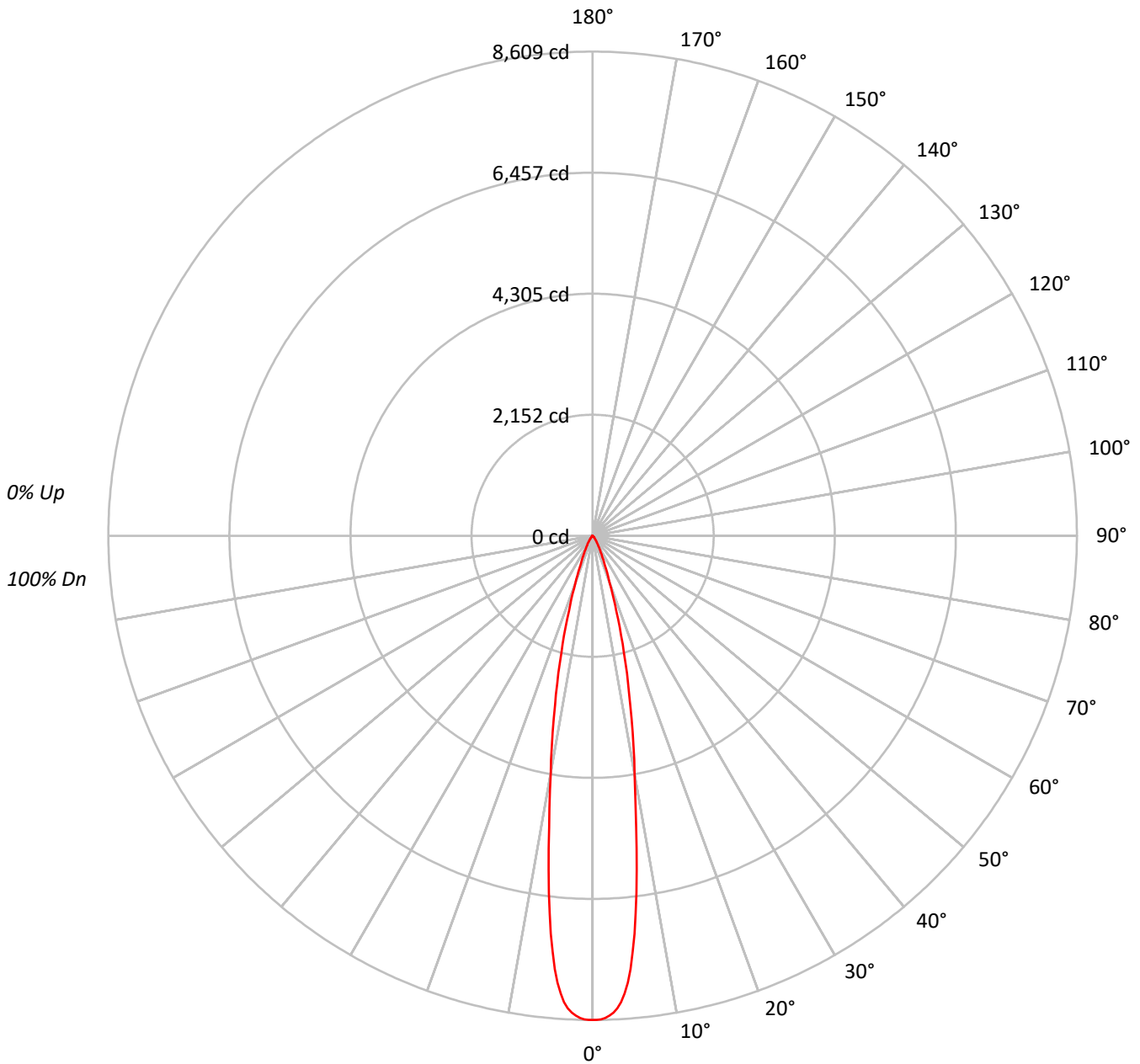


Downlight



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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	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°	940659
5°	848645
10°	476303
15°	242111
20°	102506
25°	47318
30°	25056
35°	13498
40°	7217
45°	4265
50°	2482
55°	1314
60°	830
65°	595
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4265 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.0	40.5
10°-20°	603.6	39.9
20°-30°	197.2	13.0
30°-40°	67.1	4.4
40°-50°	22.6	1.5
50°-60°	6.8	0.4
60°-70°	2.3	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°	1413.7	93.5
0°-40°	1480.8	97.9
0°-60°	1510.2	99.8
0°-90°	1512.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1512.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	8609	
5°	7738	613
15°	2140	604
25°	392	197
35°	101	67
45°	28	23
55°	7	7
65°	2	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	8609.3
0.5°	8609.3
1°	8598.5
1.5°	8577.1
2°	8538.0
2.5°	8485.8
3°	8412.2
3.5°	8309.5
4°	8157.0
4.5°	7971.4
5°	7737.6
5.5°	7430.2
6°	7115.1
6.5°	6754.0
7°	6400.6
7.5°	5986.6
8°	5617.1
8.5°	5245.3
9°	4901.8
9.5°	4586.8
10°	4293.1
12.5°	3082.6
15°	2140.4
17.5°	1398.3
20°	881.6
22.5°	571.1
25°	392.5
27.5°	276.0
30°	198.6
32.5°	142.6
35°	101.2
37.5°	70.5
40°	50.6
42.5°	36.8
45°	27.6
47.5°	21.5
50°	14.6
52.5°	9.2
55°	6.9
57.5°	5.4
60°	3.8
62.5°	3.1
65°	2.3



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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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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— 0°-180°

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67.5°		1.5
70°		0.8

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(END OF REPORT)