

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: P743946

Luminaire Tested: LD4D20D010-EU4DR2015309024-4LBS1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743946
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-EU4DR2015309024-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1884.2 lumens
Efficiency: N/A
Efficacy: 81.6 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



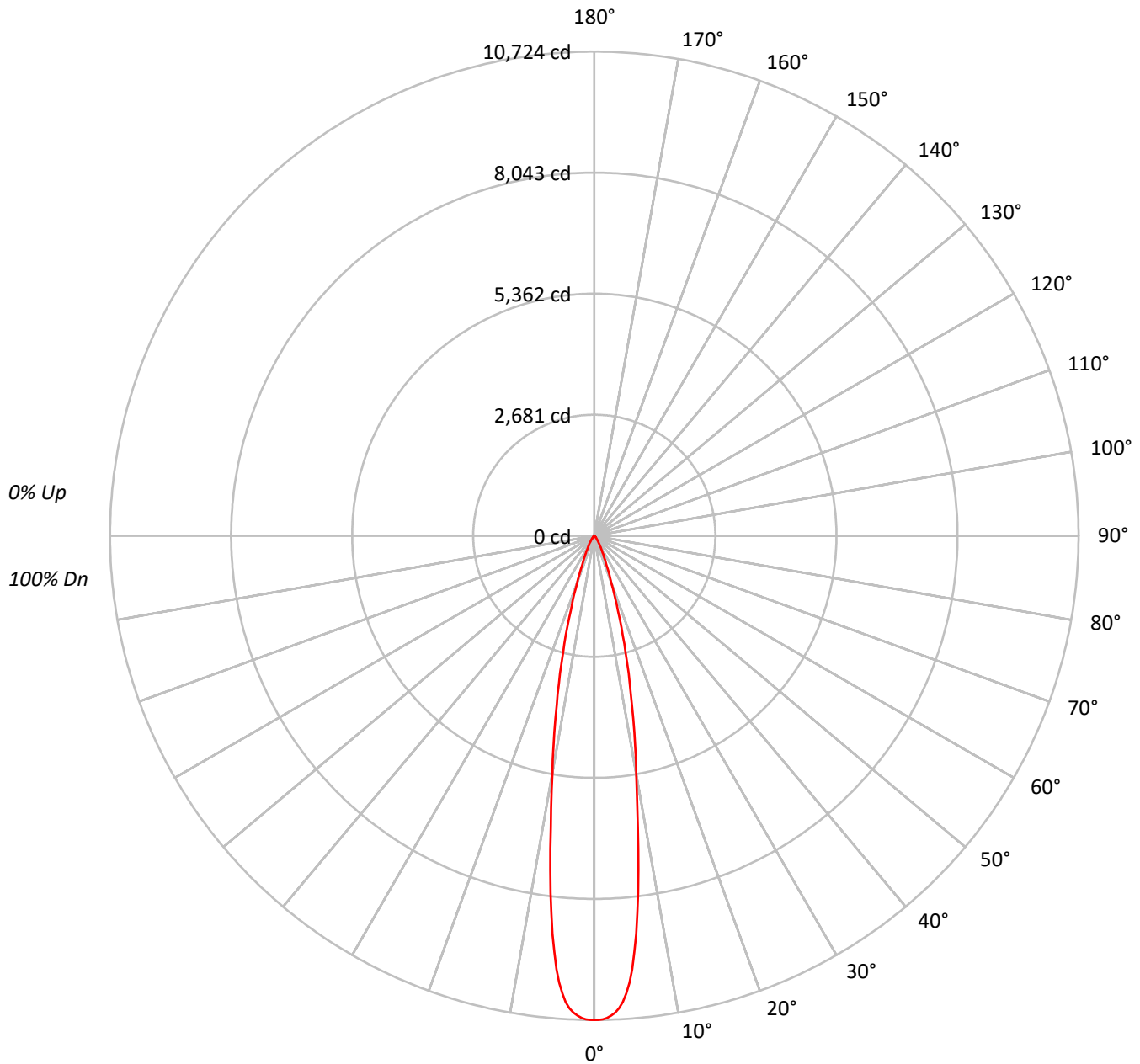
Downlight



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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					0
RW	70	50	30	10	70	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
1	115	113	111	109	113	111	109	108		107	106	104		103	102	101		100	99	98
2	111	108	105	102	109	106	104	101		103	101	99		100	99	97		98	96	95
3	108	103	100	97	106	102	99	96		100	97	95		97	95	93		95	93	92
4	105	99	96	93	103	98	95	92		96	93	91		95	92	90		93	91	89
5	102	96	92	89	100	95	91	89		94	90	88		92	89	87		91	88	86
6	99	93	89	86	98	92	88	86		91	87	85		90	87	84		88	86	84
7	96	90	86	83	95	89	86	83		88	85	82		87	84	82		86	84	82
8	94	87	83	81	93	87	83	80		86	83	80		85	82	80		84	82	80
9	91	85	81	78	91	85	81	78		84	80	78		83	80	78		82	80	78
10	89	83	79	76	88	82	79	76		82	78	76		81	78	76		81	78	76

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1171745
5°	1057132
10°	593319
15°	301599
20°	127691
25°	58940
30°	31200
35°	16820
40°	8986
45°	5315
50°	3077
55°	1638
60°	1049
65°	750
70°	319
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5315 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	763.6	40.5
10°-20°	751.9	39.9
20°-30°	245.6	13.0
30°-40°	83.6	4.4
40°-50°	28.1	1.5
50°-60°	8.5	0.4
60°-70°	2.8	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°	1761.0	93.5
0°-40°	1844.7	97.9
0°-60°	1881.2	99.8
0°-90°	1884.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10724	
5°	9638	764
15°	2666	752
25°	489	246
35°	126	84
45°	34	28
55°	9	8
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	10724.3
0.5°	10724.3
1°	10710.9
1.5°	10684.2
2°	10635.5
2.5°	10570.5
3°	10478.9
3.5°	10350.9
4°	10160.8
4.5°	9929.7
5°	9638.5
5.5°	9255.5
6°	8863.0
6.5°	8413.3
7°	7973.0
7.5°	7457.3
8°	6997.0
8.5°	6533.9
9°	6106.1
9.5°	5713.6
10°	5347.8
12.5°	3839.9
15°	2666.3
17.5°	1741.9
20°	1098.2
22.5°	711.5
25°	488.9
27.5°	343.8
30°	247.3
32.5°	177.6
35°	126.1
37.5°	87.9
40°	63.0
42.5°	45.8
45°	34.4
47.5°	26.7
50°	18.1
52.5°	11.5
55°	8.6
57.5°	6.7
60°	4.8
62.5°	3.8
65°	2.9



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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



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— 0°-180°







67.5°	1.9
70°	1.0



(END OF REPORT)