

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: P743954

Luminaire Tested: LD4D20D010-EU4DR2015309027-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743954
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-EU4DR2015309027-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

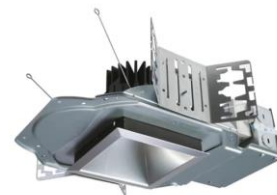
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1892.4 lumens
Efficiency: N/A
Efficacy: 81.9 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



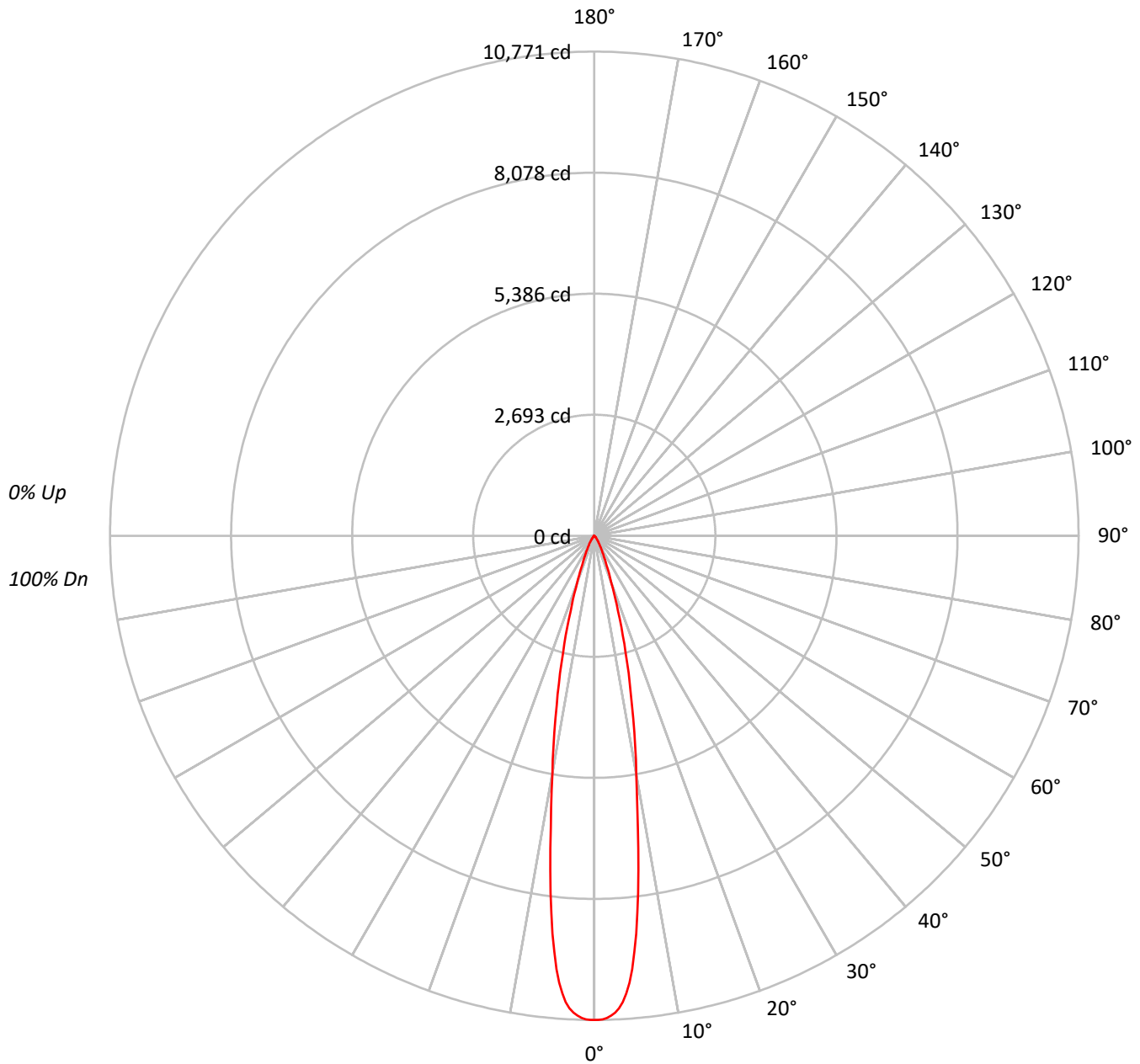
Downlight



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	115	113	111	109	113	111	109	108	107	106	104		103	102	101		100
2	111	108	105	102	109	106	104	101	103	101	99		100	99	97		98
3	108	103	100	97	106	102	99	96	100	97	95		97	95	93		95
4	105	99	96	93	103	98	95	92	96	93	91		95	92	90		93
5	102	96	92	89	100	95	91	89	94	90	88		92	89	87		91
6	99	93	89	86	98	92	88	86	91	87	85		90	87	84		88
7	96	90	86	83	95	89	86	83	88	85	82		87	84	82		86
8	94	87	83	81	93	87	83	80	86	83	80		85	82	80		84
9	91	85	81	78	91	85	81	78	84	80	78		83	80	78		82
10	89	83	79	76	88	82	79	76	82	78	76		81	78	76		81

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1176848
5°	1061739
10°	595904
15°	302911
20°	128249
25°	59205
30°	31339
35°	16886
40°	9028
45°	5331
50°	3094
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: 5331 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.9	40.5
10°-20°	755.1	39.9
20°-30°	246.7	13.0
30°-40°	84.0	4.4
40°-50°	28.2	1.5
50°-60°	8.5	0.4
60°-70°	2.8	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°	1768.7	93.5
0°-40°	1852.7	97.9
0°-60°	1889.4	99.8
0°-90°	1892.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1892.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	10771	
5°	9680	767
15°	2678	755
25°	491	247
35°	127	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°	10771.0
0.5°	10771.0
1°	10757.6
1.5°	10730.7
2°	10681.8
2.5°	10616.6
3°	10524.5
3.5°	10396.0
4°	10205.1
4.5°	9973.0
5°	9680.5
5.5°	9295.9
6°	8901.7
6.5°	8449.9
7°	8007.8
7.5°	7489.8
8°	7027.5
8.5°	6562.3
9°	6132.7
9.5°	5738.5
10°	5371.1
12.5°	3856.7
15°	2677.9
17.5°	1749.4
20°	1103.0
22.5°	714.5
25°	491.1
27.5°	345.3
30°	248.4
32.5°	178.4
35°	126.6
37.5°	88.2
40°	63.3
42.5°	46.0
45°	34.5
47.5°	26.9
50°	18.2
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)