

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: P743980

Luminaire Tested: LD4D20D010-EU4DR2015309035-4LBDP1H

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743980
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-EU4DR2015309035-4LBDP1H
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2062.8 lumens
Efficiency: N/A
Efficacy: 89.3 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



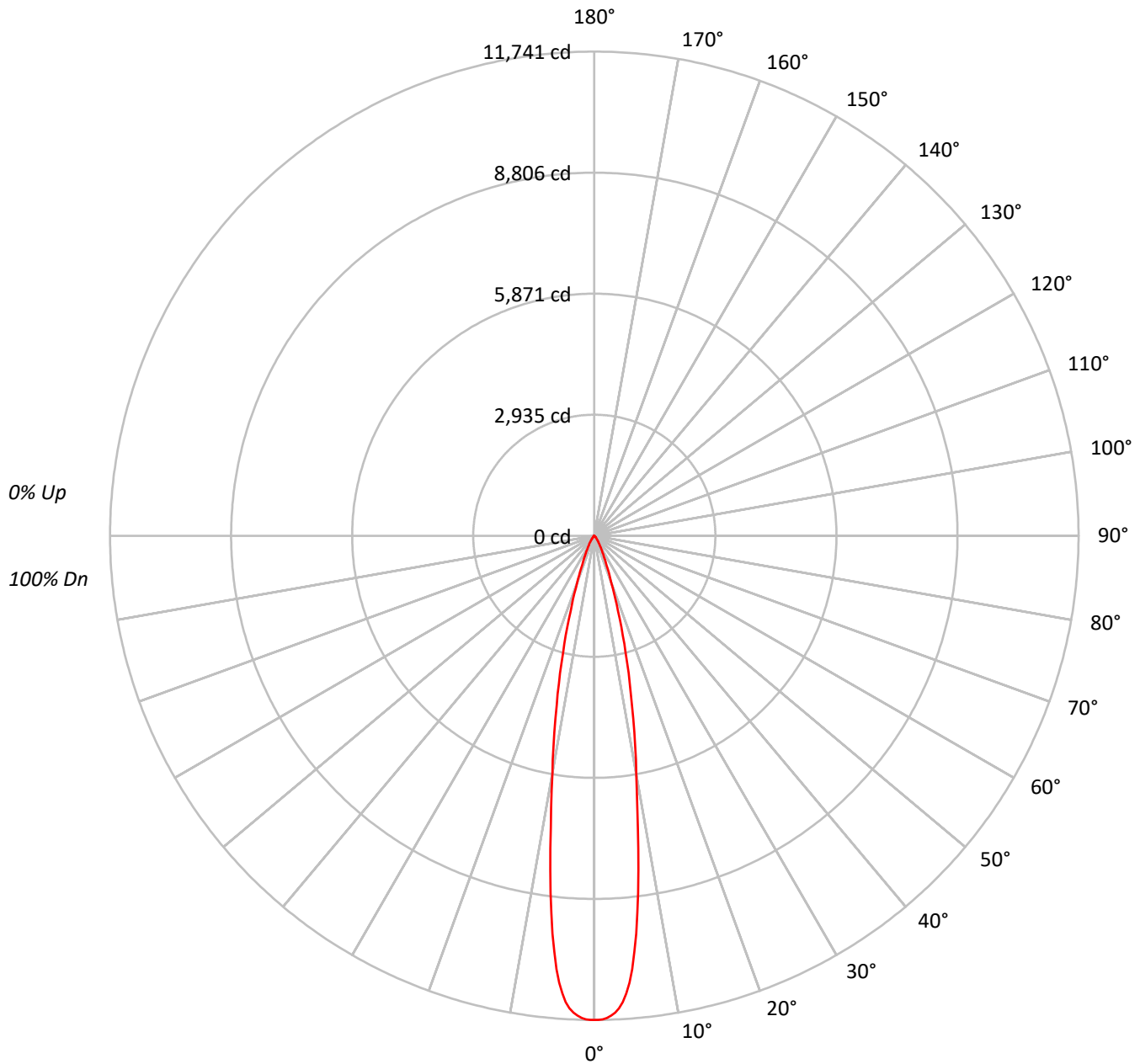
Downlight



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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°	1282820
5°	1157345
10°	649568
15°	330183
20°	139795
25°	64534
30°	34165
35°	18407
40°	9841
45°	5810
50°	3383
55°	1791
60°	1136
65°	801
70°	319
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5810 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.9	40.5
10°-20°	823.1	39.9
20°-30°	268.9	13.0
30°-40°	91.6	4.4
40°-50°	30.8	1.5
50°-60°	9.3	0.4
60°-70°	3.1	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°	1928.0	93.5
0°-40°	2019.5	97.9
0°-60°	2059.6	99.8
0°-90°	2062.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2062.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11741	
5°	10552	836
15°	2919	823
25°	535	269
35°	138	92
45°	38	31
55°	9	9
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	11740.9
0.5°	11740.9
1°	11726.3
1.5°	11697.0
2°	11643.7
2.5°	11572.6
3°	11472.2
3.5°	11332.1
4°	11124.0
4.5°	10871.0
5°	10552.2
5.5°	10132.9
6°	9703.2
6.5°	9210.8
7°	8728.8
7.5°	8164.3
8°	7660.3
8.5°	7153.3
9°	6684.9
9.5°	6255.2
10°	5854.8
12.5°	4203.9
15°	2919.0
17.5°	1907.0
20°	1202.3
22.5°	778.9
25°	535.3
27.5°	376.4
30°	270.8
32.5°	194.5
35°	138.0
37.5°	96.2
40°	69.0
42.5°	50.2
45°	37.6
47.5°	29.3
50°	19.9
52.5°	12.5
55°	9.4
57.5°	7.3
60°	5.2
62.5°	4.2
65°	3.1



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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°	2.1
70°	1.0



(END OF REPORT)