

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: P743994

Luminaire Tested: LD4D20D010-EU4DR2015309040-4LBDP1LI

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743994
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-EU4DR2015309040-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2225.8 lumens
Efficiency: N/A
Efficacy: 96.4 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



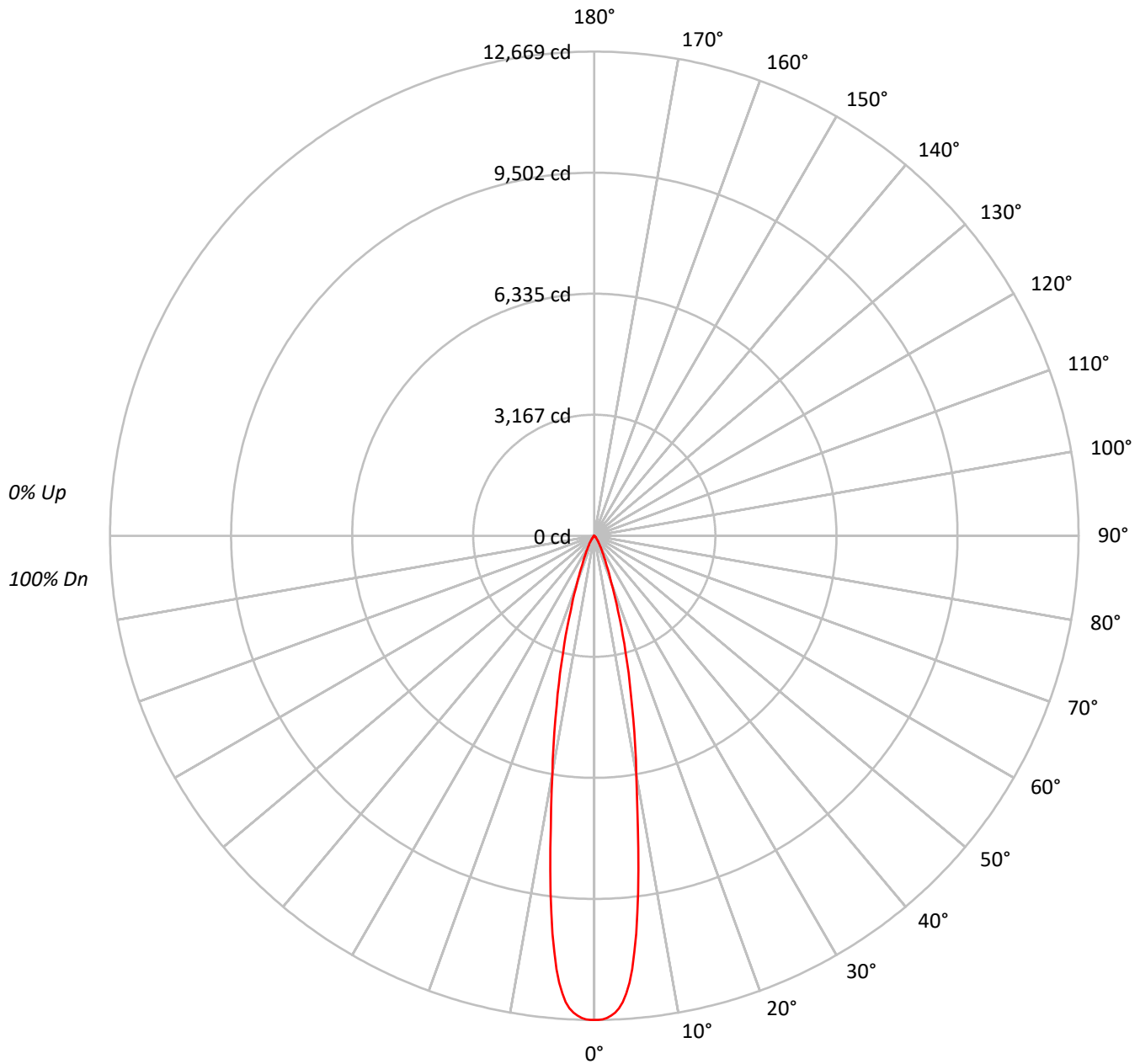
Downlight



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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°	1384203
5°	1248806
10°	700903
15°	356278
20°	150841
25°	69633
30°	36865
35°	19861
40°	10626
45°	6273
50°	3638
55°	1943
60°	1224
65°	879
70°	351
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.0	40.5
10°-20°	888.2	39.9
20°-30°	290.2	13.0
30°-40°	98.8	4.4
40°-50°	33.2	1.5
50°-60°	10.0	0.4
60°-70°	3.3	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°	2080.3	93.5
0°-40°	2179.1	97.9
0°-60°	2222.3	99.8
0°-90°	2225.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2225.8	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12669	
5°	11386	902
15°	3150	888
25°	578	290
35°	149	99
45°	41	33
55°	10	10
65°	3	3
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	12668.8
0.5°	12668.8
1°	12653.0
1.5°	12621.4
2°	12563.9
2.5°	12487.2
3°	12378.9
3.5°	12227.7
4°	12003.2
4.5°	11730.2
5°	11386.1
5.5°	10933.7
6°	10470.1
6.5°	9938.7
7°	9418.7
7.5°	8809.5
8°	8265.7
8.5°	7718.6
9°	7213.2
9.5°	6749.5
10°	6317.5
12.5°	4536.2
15°	3149.7
17.5°	2057.7
20°	1297.3
22.5°	840.5
25°	577.6
27.5°	406.1
30°	292.2
32.5°	209.8
35°	148.9
37.5°	103.8
40°	74.5
42.5°	54.1
45°	40.6
47.5°	31.6
50°	21.4
52.5°	13.5
55°	10.2
57.5°	7.9
60°	5.6
62.5°	4.5
65°	3.4



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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°	2.3
70°	1.1



(END OF REPORT)