

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: P744746

Luminaire Tested: LD4D20D010-EU4DR7020359030-4LBDP1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744746
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-73)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR7020359030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1082.9 lumens
Efficiency: N/A
Efficacy: 46.9 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
Input Current (A_{in}): 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



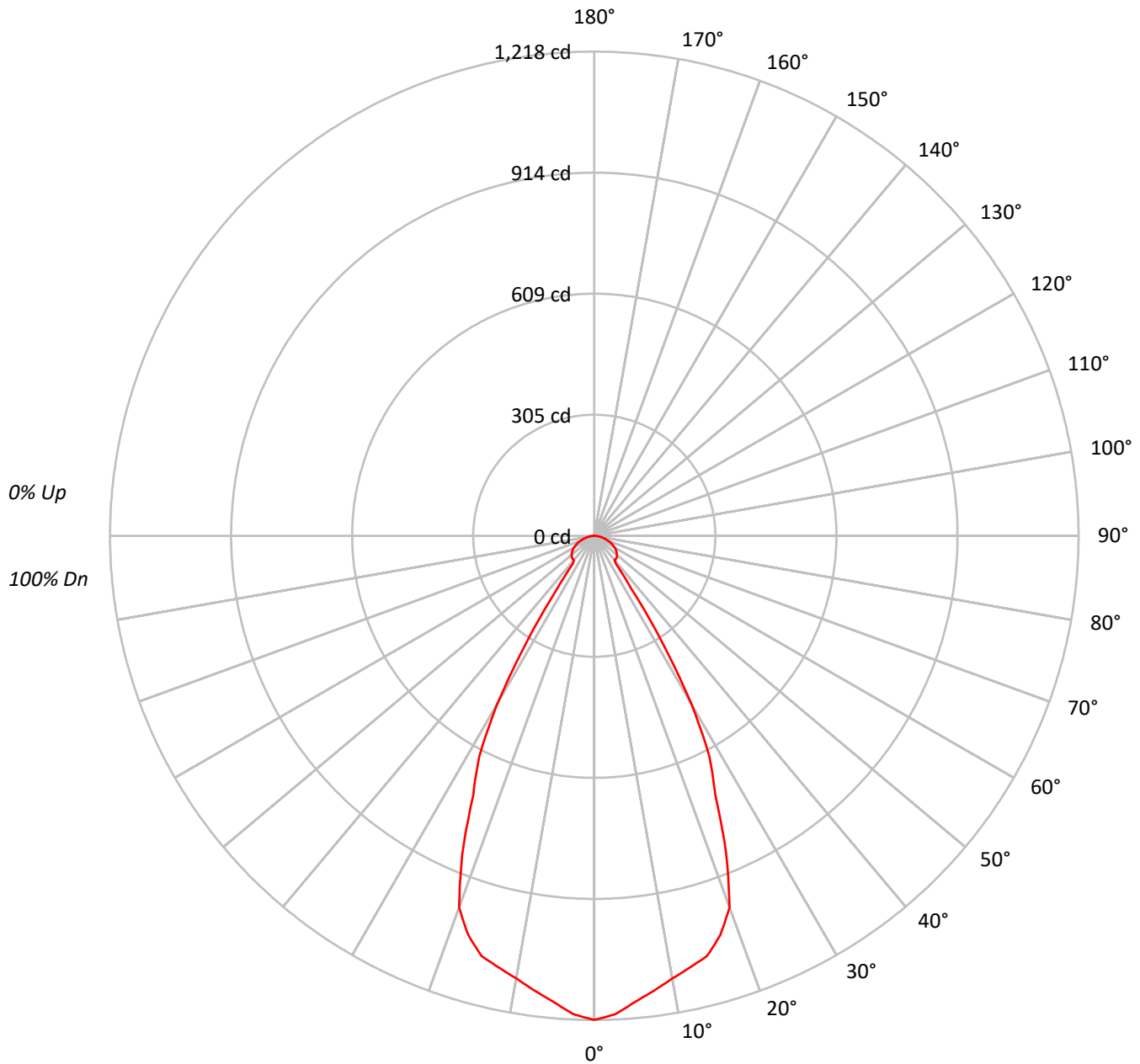
Downlight



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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	30	10
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	112	109	106	103		110	107	104	102		103	101	99		99	97	96		95	94	93
2	106	100	95	91		103	98	94	90		95	91	88		92	89	86		89	87	85
3	100	92	87	82		98	91	86	81		88	84	80		86	82	79		83	80	78
4	94	86	80	75		92	85	79	74		82	77	73		80	76	73		78	75	72
5	89	80	74	69		87	79	73	69		77	72	68		75	71	67		74	70	67
6	85	75	68	64		83	74	68	64		73	67	63		71	66	63		70	66	62
7	80	70	64	59		79	70	64	59		68	63	59		67	62	59		66	62	58
8	77	66	60	56		75	66	60	56		65	59	55		64	59	55		63	58	55
9	73	63	57	52		72	62	56	52		61	56	52		60	55	52		60	55	52
10	70	59	53	49		69	59	53	49		58	53	49		57	52	49		57	52	49

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	133036
5°	129080
10°	125480
15°	123827
20°	115633
25°	86873
30°	61416
35°	21755
40°	11439
45°	12176
50°	12612
55°	12858
60°	12936
65°	12668
70°	11948
75°	11060
80°	9816
85°	8023

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 60°

Luminance: 12936 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	10.3
10°-20°	304.5	28.1
20°-30°	335.4	31.0
30°-40°	128.1	11.8
40°-50°	60.5	5.6
50°-60°	60.1	5.6
60°-70°	48.2	4.4
70°-80°	27.7	2.6
80°-90°	7.5	0.7
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°	750.8	69.3
0°-40°	879.0	81.2
0°-60°	999.6	92.3
0°-90°	1082.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1082.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1218	
5°	1177	111
15°	1095	304
25°	721	335
35°	163	128
45°	79	60
55°	68	60
65°	49	48
75°	26	28
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1217.6
2.5°	1204.8
5°	1176.9
7.5°	1153.6
10°	1131.0
12.5°	1111.9
15°	1094.7
17.5°	1053.3
20°	994.5
22.5°	867.7
25°	720.6
27.5°	627.3
30°	486.8
32.5°	314.4
35°	163.1
37.5°	88.1
40°	80.2
42.5°	79.6
45°	78.8
47.5°	77.1
50°	74.2
52.5°	70.9
55°	67.5
57.5°	63.6
60°	59.2
62.5°	54.1
65°	49.0
67.5°	43.2
70°	37.4
72.5°	31.6
75°	26.2
77.5°	20.6
80°	15.6
82.5°	11.0
85°	6.4
87.5°	2.5
90°	0.0



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— 0°-180°







(END OF REPORT)