

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: P744574

Luminaire Tested: LD4D20D010-EU4DR6020359027-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P744574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-60)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR6020359027-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1745.2 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
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



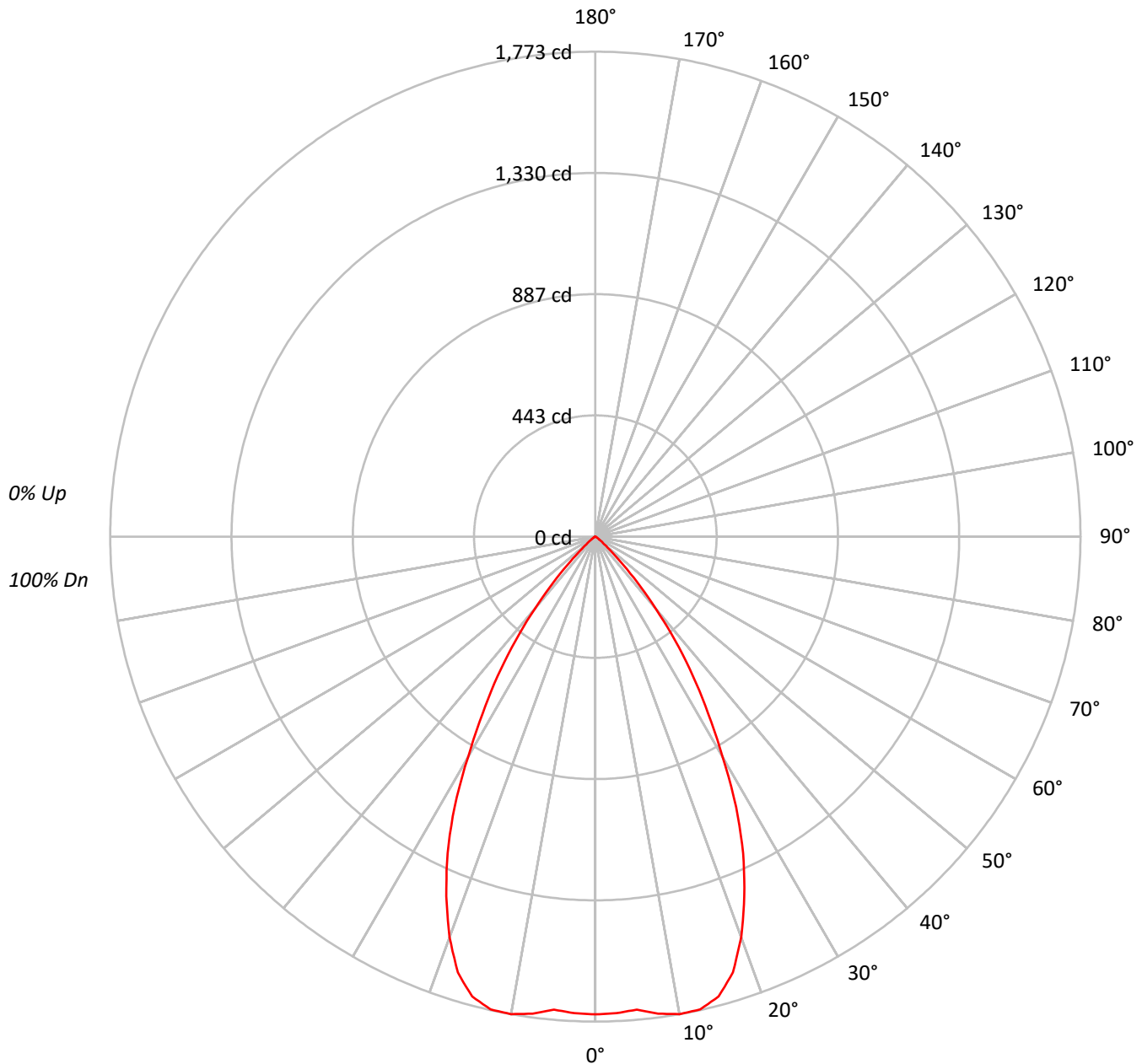
Downlight



TEST NUMBER: P744574

CATALOG NUMBER: LD4D20D010-EU4DR6020359027-4LBCSSQMB

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	114	111	108	106		111	109	106	104		105	103	101		101	99	98		97	96	95
2	108	103	99	96		106	101	98	95		98	95	92		95	93	90		92	90	89
3	102	96	91	87		100	95	90	86		92	88	85		90	86	84		87	85	82
4	97	90	84	80		95	88	83	79		86	82	78		84	81	78		82	79	77
5	92	84	78	74		91	83	77	73		81	76	73		79	75	72		78	74	71
6	87	79	73	68		86	78	72	68		76	71	68		75	70	67		74	70	67
7	83	74	68	63		82	73	67	63		72	67	63		71	66	63		69	65	62
8	79	69	63	59		78	69	63	59		68	63	59		67	62	59		66	61	58
9	75	65	59	55		74	65	59	55		64	59	55		63	58	55		62	58	55
10	72	62	56	52		71	61	56	52		61	55	52		60	55	52		59	55	52

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	190824
5°	190357
10°	196674
15°	196877
20°	181153
25°	154083
30°	117408
35°	83031
40°	48751
45°	19670
50°	6561
55°	3162
60°	1311
65°	181
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19670 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.4	9.6
10°-20°	482.2	27.6
20°-30°	577.1	33.1
30°-40°	386.0	22.1
40°-50°	114.4	6.6
50°-60°	16.5	0.9
60°-70°	1.6	0.1
70°-80°	0.0	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°	1226.7	70.3
0°-40°	1612.7	92.4
0°-60°	1743.6	99.9
0°-90°	1745.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1745.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1746	
5°	1736	167
15°	1740	482
25°	1278	577
35°	622	386
45°	127	114
55°	17	16
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1746.5
2.5°	1744.2
5°	1735.6
7.5°	1759.1
10°	1772.7
12.5°	1770.2
15°	1740.5
17.5°	1670.4
20°	1558.0
22.5°	1423.0
25°	1278.1
27.5°	1114.8
30°	930.6
32.5°	766.1
35°	622.5
37.5°	478.5
40°	341.8
42.5°	225.4
45°	127.3
47.5°	65.1
50°	38.6
52.5°	25.0
55°	16.6
57.5°	10.7
60°	6.0
62.5°	2.5
65°	0.7
67.5°	0.2
70°	0.0
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°







(END OF REPORT)