

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: P744741

Luminaire Tested: LD4D20D010-EU4DR7020359027-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P744741
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-EU4DR7020359027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1113.5 lumens
Efficiency: N/A
Efficacy: 48.2 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 (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



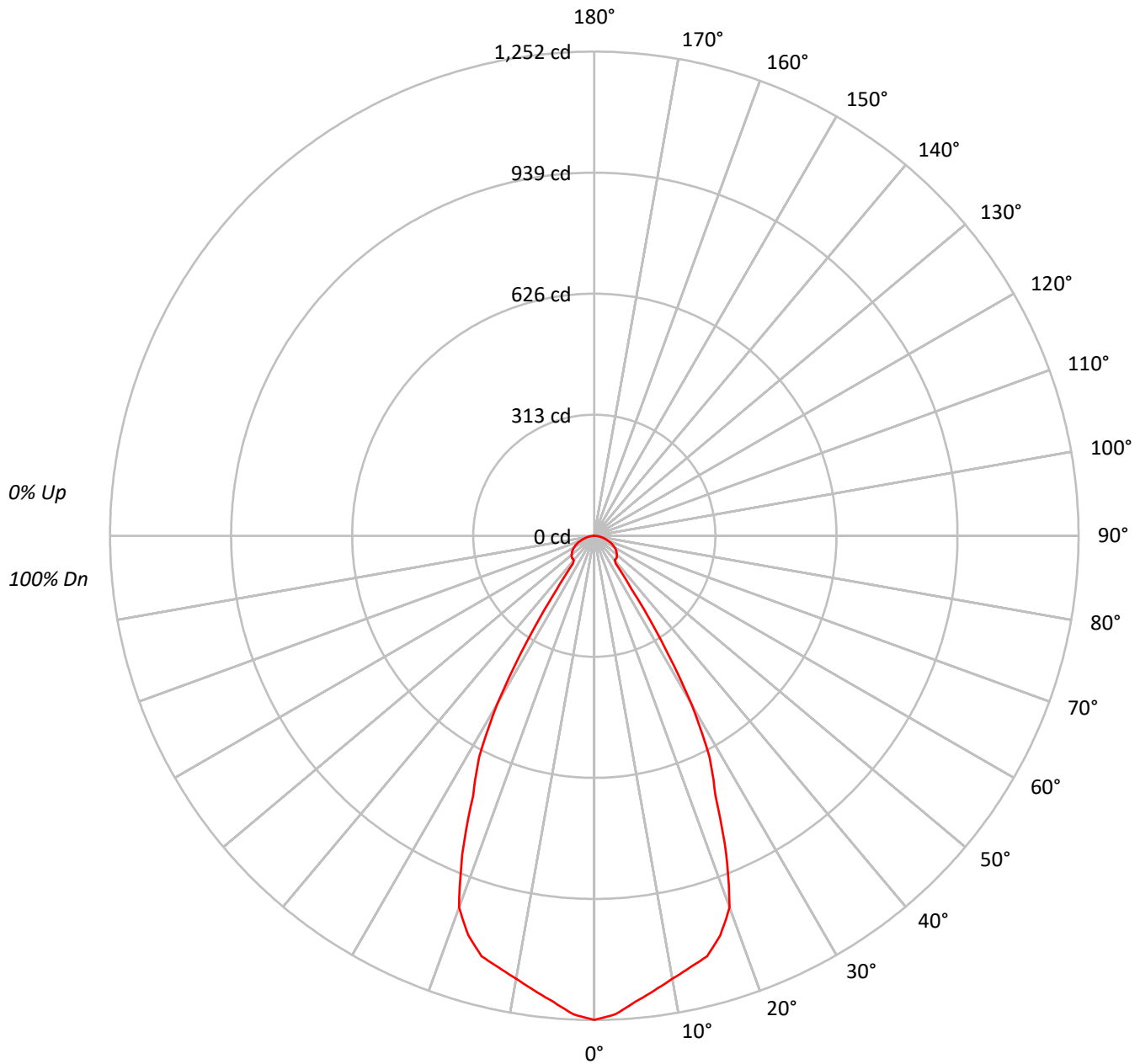
Downlight



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	136784
5°	132721
10°	129019
15°	127322
20°	118889
25°	89320
30°	63145
35°	22368
40°	11753
45°	12531
50°	12969
55°	13220
60°	13286
65°	13030
70°	12267
75°	11356
80°	10067
85°	8149

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 57.5°

Luminance: 13299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.1	10.3
10°-20°	313.1	28.1
20°-30°	344.8	31.0
30°-40°	131.7	11.8
40°-50°	62.2	5.6
50°-60°	61.8	5.6
60°-70°	49.5	4.4
70°-80°	28.4	2.6
80°-90°	7.7	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°	772.0	69.3
0°-40°	903.7	81.2
0°-60°	1027.8	92.3
0°-90°	1113.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1113.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1252	
5°	1210	114
15°	1126	313
25°	741	345
35°	168	132
45°	81	62
55°	69	62
65°	50	50
75°	27	28
85°	6	8
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1251.9
2.5°	1238.8
5°	1210.1
7.5°	1186.1
10°	1162.9
12.5°	1143.3
15°	1125.6
17.5°	1083.0
20°	1022.5
22.5°	892.1
25°	740.9
27.5°	645.0
30°	500.5
32.5°	323.3
35°	167.7
37.5°	90.6
40°	82.4
42.5°	81.9
45°	81.1
47.5°	79.3
50°	76.3
52.5°	72.9
55°	69.4
57.5°	65.4
60°	60.8
62.5°	55.7
65°	50.4
67.5°	44.4
70°	38.4
72.5°	32.5
75°	26.9
77.5°	21.2
80°	16.0
82.5°	11.3
85°	6.5
87.5°	2.6
90°	0.0



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— 0°-180°







(END OF REPORT)