

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: P741341

Luminaire Tested: LD4D08D010-EU4DR450210IC9027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P741341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D08D010-EU4DR450210IC9027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 644.7 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 8.9
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



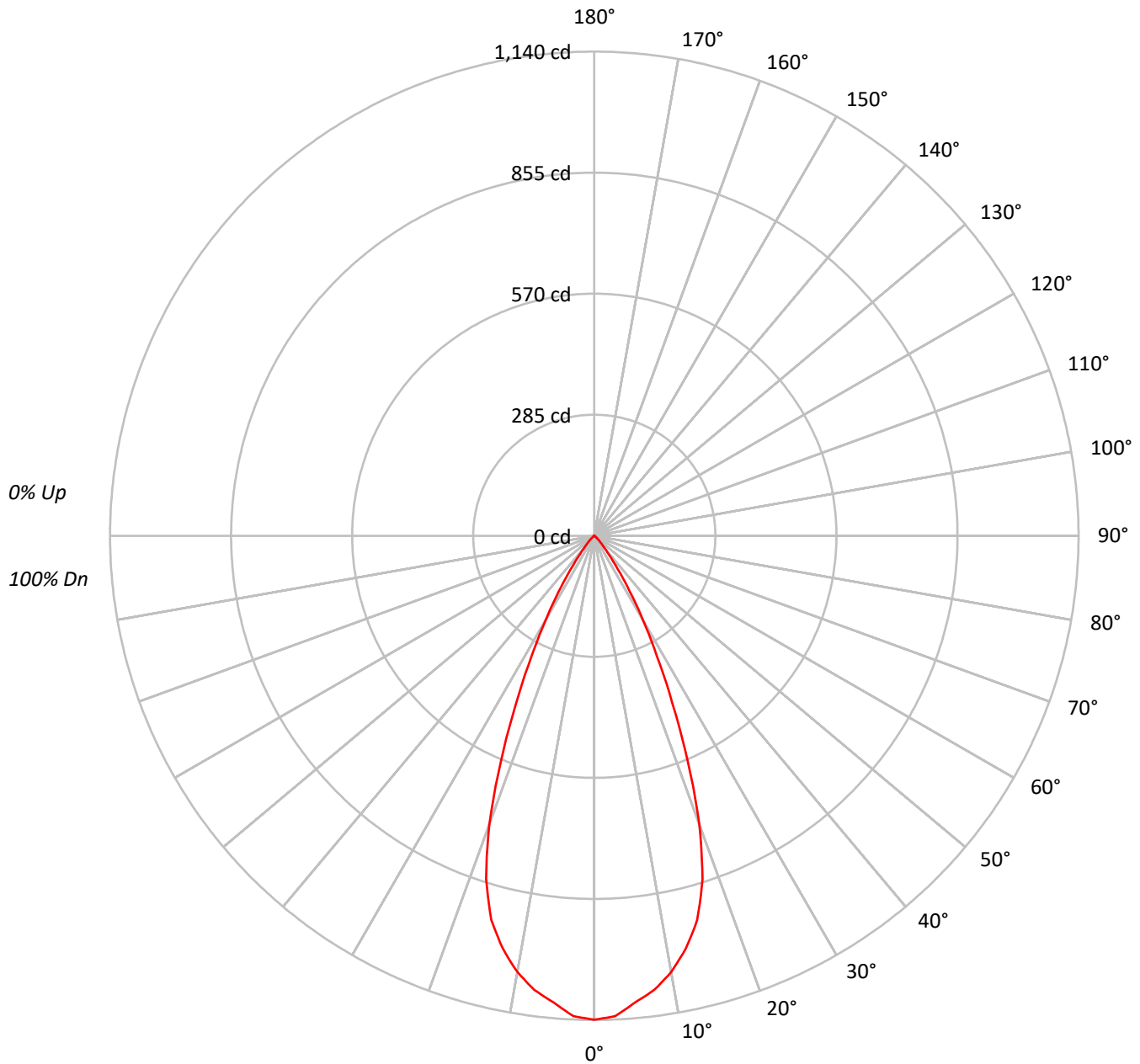
Downlight



TEST NUMBER: P741341

CATALOG NUMBER: LD4D08D010-EU4DR450210IC9027-4LBSQW1B

Luminous Intensity Polar Plot



TEST NUMBER: P741341

CATALOG NUMBER: LD4D08D010-EU4DR450210IC9027-4LBSQW1B

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	114	112	110	108	112	110	108	106	106	104	103		102	101	100		98
2	109	105	102	99	107	103	100	98	100	98	95		97	95	93		95
3	105	99	95	91	103	98	94	91	95	92	89		93	90	88		91
4	100	94	89	85	99	93	88	85	91	87	84		89	86	83		87
5	96	89	84	80	95	88	83	80	86	82	79		85	81	79		83
6	92	85	80	76	91	84	79	76	83	78	75		81	77	75		80
7	89	81	75	72	87	80	75	72	79	74	71		78	74	71		77
8	85	77	72	68	84	76	71	68	75	71	68		74	70	67		73
9	82	73	68	65	81	73	68	65	72	68	65		71	67	64		71
10	79	70	65	62	78	70	65	62	69	65	62		68	64	61		68

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	124503
5°	120953
10°	115728
15°	105910
20°	84030
25°	52466
30°	28917
35°	12978
40°	5120
45°	2410
50°	1139
55°	610
60°	284
65°	78
70°	32
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2410 cd/sqm



TEST NUMBER: P741341

CATALOG NUMBER: LD4D08D010-EU4DR450210IC9027-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	16.1
10°-20°	255.0	39.6
20°-30°	202.0	31.3
30°-40°	67.2	10.4
40°-50°	13.3	2.1
50°-60°	3.1	0.5
60°-70°	0.4	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°	560.6	87.0
0°-40°	627.9	97.4
0°-60°	644.2	99.9
0°-90°	644.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1140	
5°	1103	104
15°	936	255
25°	435	202
35°	97	67
45°	16	13
55°	3	3
65°	0	0
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P741341

CATALOG NUMBER: LD4D08D010-EU4DR450210IC9027-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	1139.5
2.5°	1132.0
5°	1102.8
7.5°	1078.8
10°	1043.1
12.5°	995.6
15°	936.3
17.5°	847.2
20°	722.7
22.5°	574.2
25°	435.2
27.5°	318.6
30°	229.2
32.5°	155.8
35°	97.3
37.5°	57.7
40°	35.9
42.5°	23.5
45°	15.6
47.5°	10.0
50°	6.7
52.5°	4.5
55°	3.2
57.5°	2.1
60°	1.3
62.5°	0.7
65°	0.3
67.5°	0.1
70°	0.1
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)