

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: P749512

Luminaire Tested: LD4D50D010-EU4DR5540509030-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P749512
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D50D010-EU4DR5540509030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 55° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.9 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 0.89 / 0.87
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

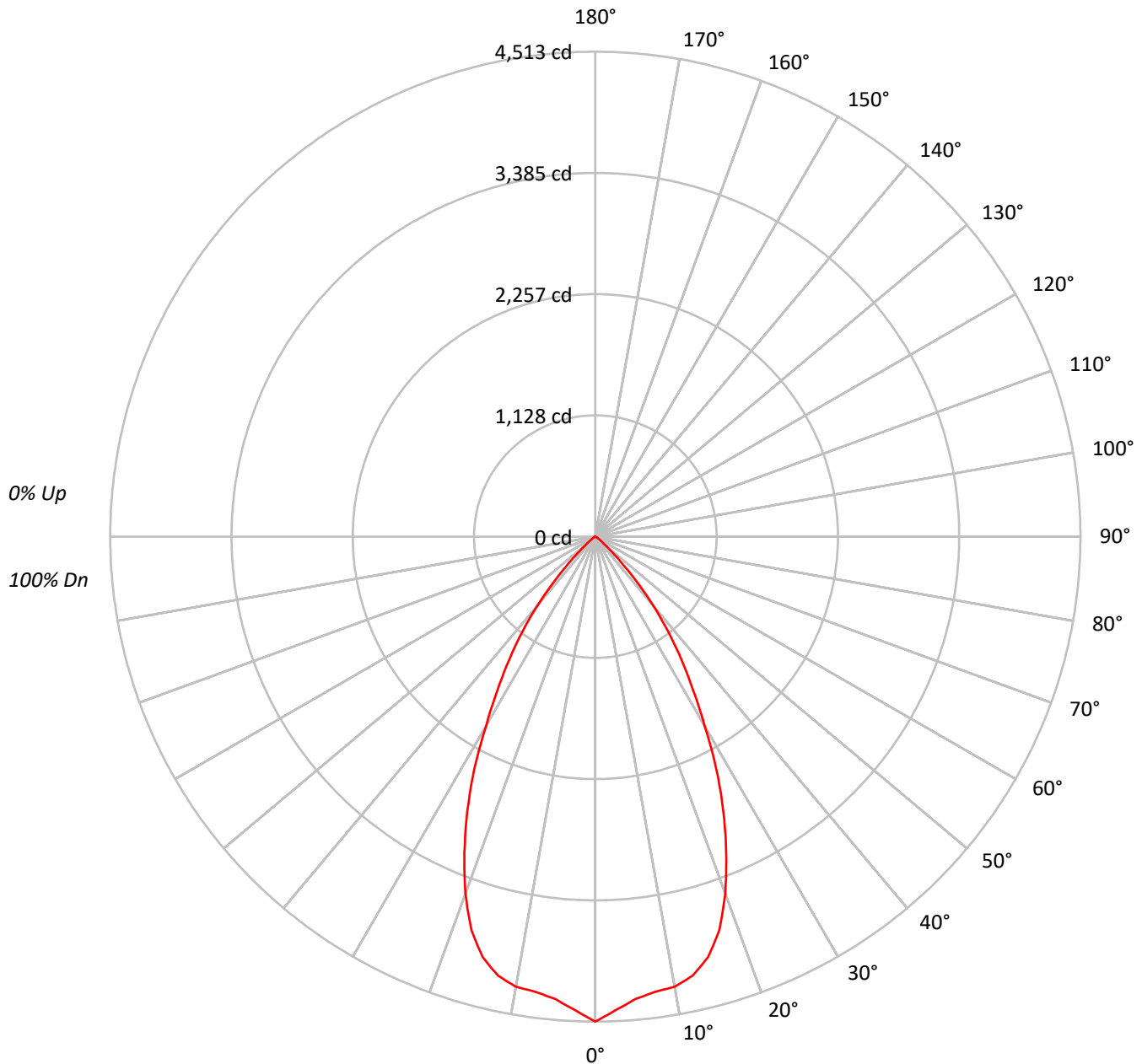
Input Watts (W): 47
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P749512

CATALOG NUMBER: LD4D50D010-EU4DR5540509030-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P749512

CATALOG NUMBER: LD4D50D010-EU4DR5540509030-4LBSQW1B

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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	493127
5°	473535
10°	471755
15°	458206
20°	410839
25°	339546
30°	256478
35°	185976
40°	119010
45°	54359
50°	17780
55°	7677
60°	3300
65°	440
70°	0
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 54359 cd/sqm



TEST NUMBER: P749512

CATALOG NUMBER: LD4D50D010-EU4DR5540509030-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.8	10.2
10°-20°	1121.3	27.9
20°-30°	1277.8	31.7
30°-40°	869.9	21.6
40°-50°	299.8	7.4
50°-60°	41.4	1.0
60°-70°	4.0	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°	2809.9	69.8
0°-40°	3679.7	91.4
0°-60°	4020.9	99.9
0°-90°	4024.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4513	
5°	4318	411
15°	4051	1121
25°	2816	1278
35°	1394	870
45°	352	300
55°	40	41
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P749512

CATALOG NUMBER: LD4D50D010-EU4DR5540509030-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	4513.3
2.5°	4409.8
5°	4317.5
7.5°	4272.2
10°	4252.1
12.5°	4185.0
15°	4050.8
17.5°	3837.7
20°	3533.4
22.5°	3182.2
25°	2816.5
27.5°	2435.6
30°	2032.9
32.5°	1691.8
35°	1394.3
37.5°	1111.3
40°	834.4
42.5°	578.3
45°	351.8
47.5°	189.6
50°	104.6
52.5°	62.1
55°	40.3
57.5°	25.7
60°	15.1
62.5°	6.7
65°	1.7
67.5°	0.6
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



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180°







(END OF REPORT)