

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: P750176

Luminaire Tested: LD4D55D010-EU4DR4555659050-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750176
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: LD4D55D010-EU4DR4555659050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5489.3 lumens
Efficiency: N/A
Efficacy: 94.3 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

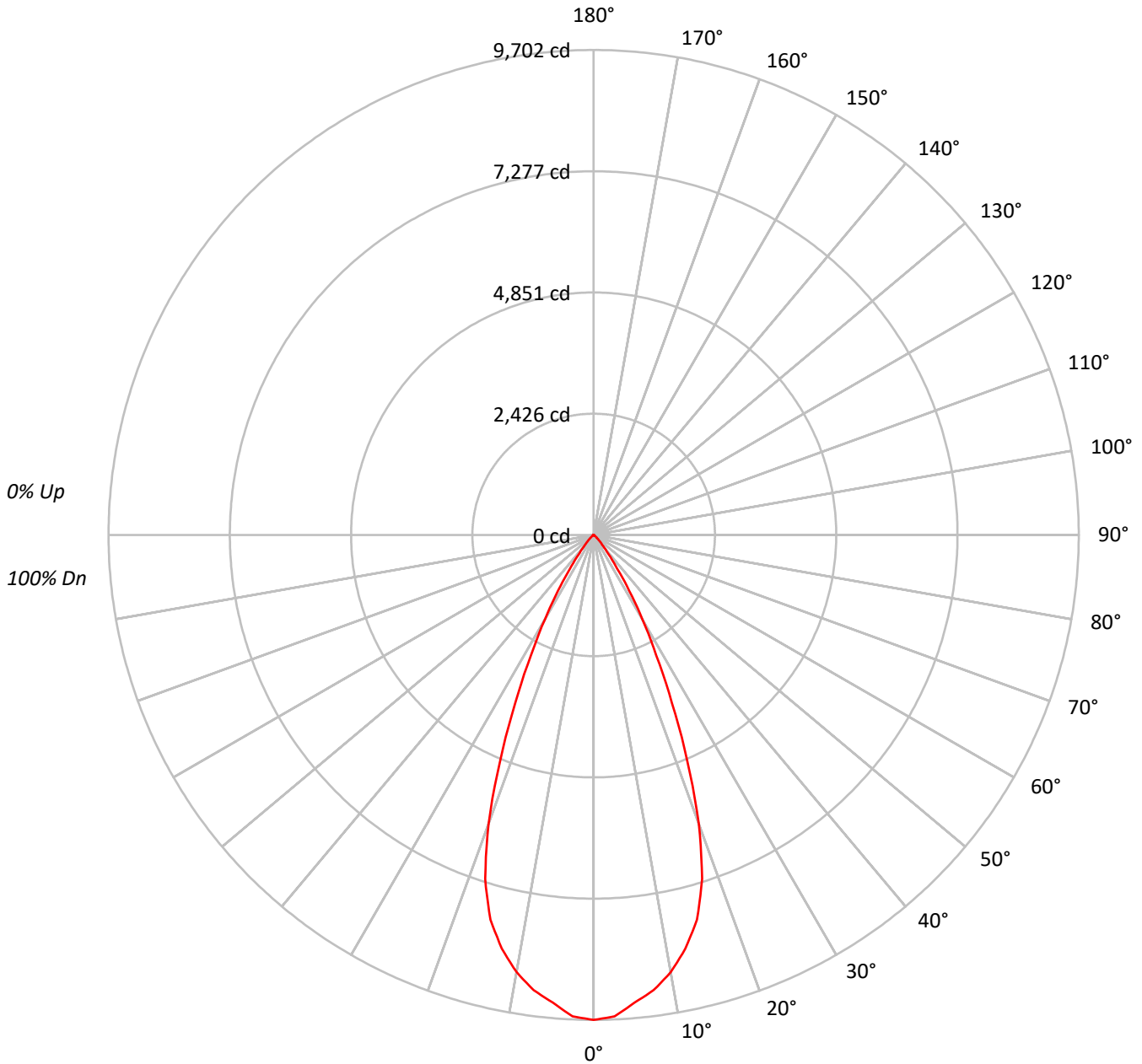
Input Watts (W): 58.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P750176

CATALOG NUMBER: LD4D55D010-EU4DR4555659050-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P750176

CATALOG NUMBER: LD4D55D010-EU4DR4555659050-4LBSQW1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1060102
5°	1029921
10°	985347
15°	901810
20°	715439
25°	446660
30°	246183
35°	110548
40°	43545
45°	20520
50°	9723
55°	5086
60°	2491
65°	595
70°	256
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 20520 cd/sqm



TEST NUMBER: P750176

CATALOG NUMBER: LD4D55D010-EU4DR4555659050-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	882.3	16.1
10°-20°	2171.5	39.6
20°-30°	1719.6	31.3
30°-40°	572.7	10.4
40°-50°	113.7	2.1
50°-60°	25.8	0.5
60°-70°	3.7	0.1
70°-80°	0.1	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°	4773.4	87.0
0°-40°	5346.0	97.4
0°-60°	5485.5	99.9
0°-90°	5489.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5489.3	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9702	
5°	9390	882
15°	7972	2171
25°	3705	1720
35°	829	573
45°	133	114
55°	27	26
65°	2	4
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P750176

CATALOG NUMBER: LD4D55D010-EU4DR4555659050-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°
0°	9702.5
2.5°	9639.1
5°	9390.4
7.5°	9185.1
10°	8881.3
12.5°	8476.9
15°	7972.5
17.5°	7213.9
20°	6153.1
22.5°	4889.4
25°	3705.0
27.5°	2712.9
30°	1951.3
32.5°	1327.1
35°	828.8
37.5°	491.5
40°	305.3
42.5°	200.7
45°	132.8
47.5°	85.5
50°	57.2
52.5°	38.2
55°	26.7
57.5°	17.6
60°	11.4
62.5°	6.1
65°	2.3
67.5°	0.8
70°	0.8
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)