

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: P750175

Luminaire Tested: LD4D55D010-EU4DR4555659050-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P750175
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-EU4DR4555659050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

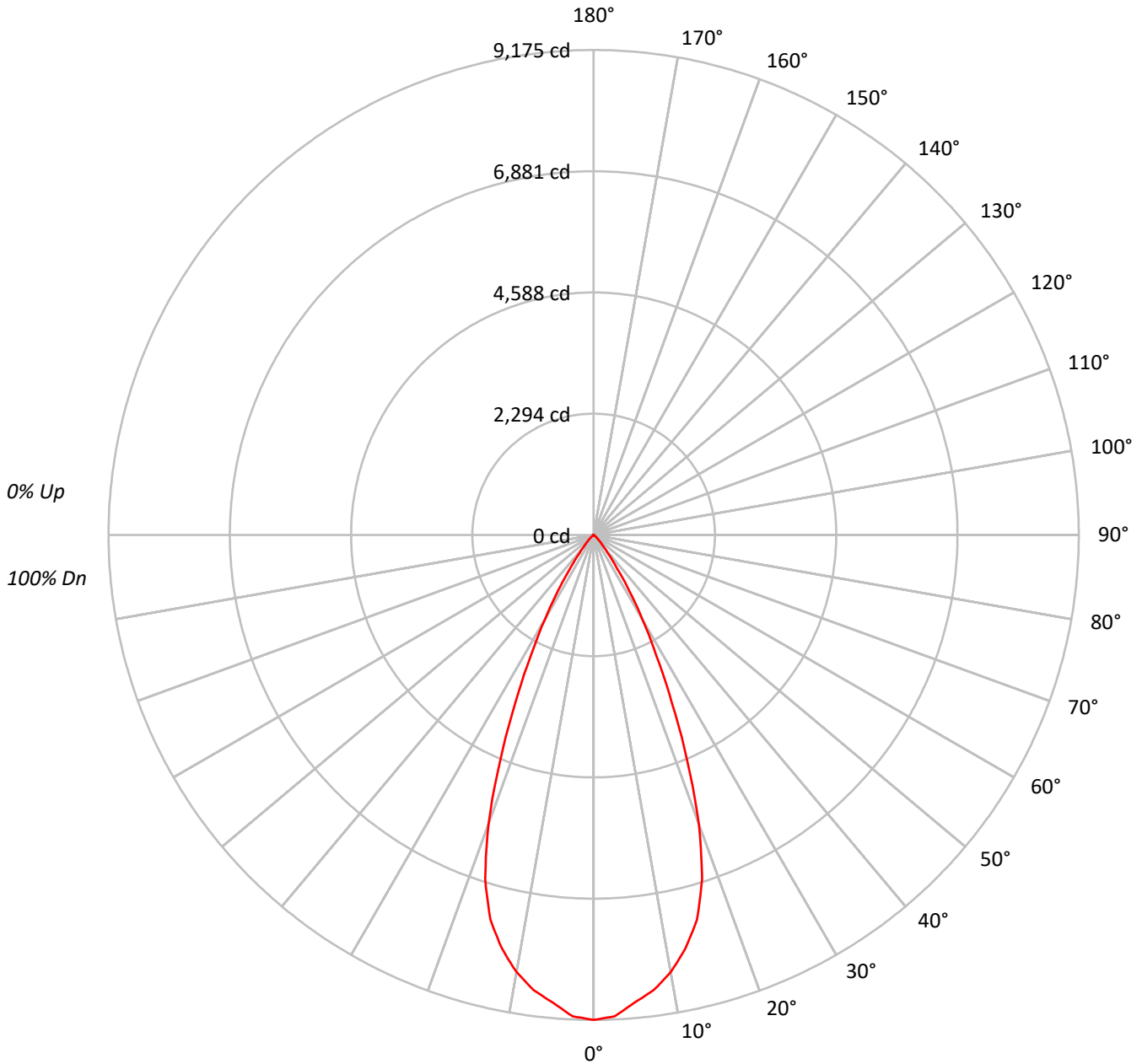
Lumens per Lamp: N/A
Luminaire Lumens: 5190.7 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1002424
5°	973887
10°	931749
15°	852740
20°	676522
25°	422356
30°	232797
35°	104532
40°	41163
45°	19407
50°	9196
55°	4819
60°	2360
65°	569
70°	224
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 19407 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	834.3	16.1
10°-20°	2053.3	39.6
20°-30°	1626.0	31.3
30°-40°	541.5	10.4
40°-50°	107.5	2.1
50°-60°	24.4	0.5
60°-70°	3.5	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°	4513.7	87.0
0°-40°	5055.2	97.4
0°-60°	5187.1	99.9
0°-90°	5190.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5190.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	9175	
5°	8880	834
15°	7539	2053
25°	3503	1626
35°	784	541
45°	126	107
55°	25	24
65°	2	4
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	9174.6
2.5°	9114.7
5°	8879.5
7.5°	8685.4
10°	8398.2
12.5°	8015.7
15°	7538.7
17.5°	6821.4
20°	5818.4
22.5°	4623.4
25°	3503.4
27.5°	2565.3
30°	1845.2
32.5°	1254.9
35°	783.7
37.5°	464.7
40°	288.6
42.5°	189.8
45°	125.6
47.5°	80.8
50°	54.1
52.5°	36.1
55°	25.3
57.5°	16.6
60°	10.8
62.5°	5.8
65°	2.2
67.5°	0.7
70°	0.7
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

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— 0°-180°

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