

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: P750565

Luminaire Tested: LD4D55D010-EU4DR7055659050-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P750565
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: LD4D55D010-EU4DR7055659050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

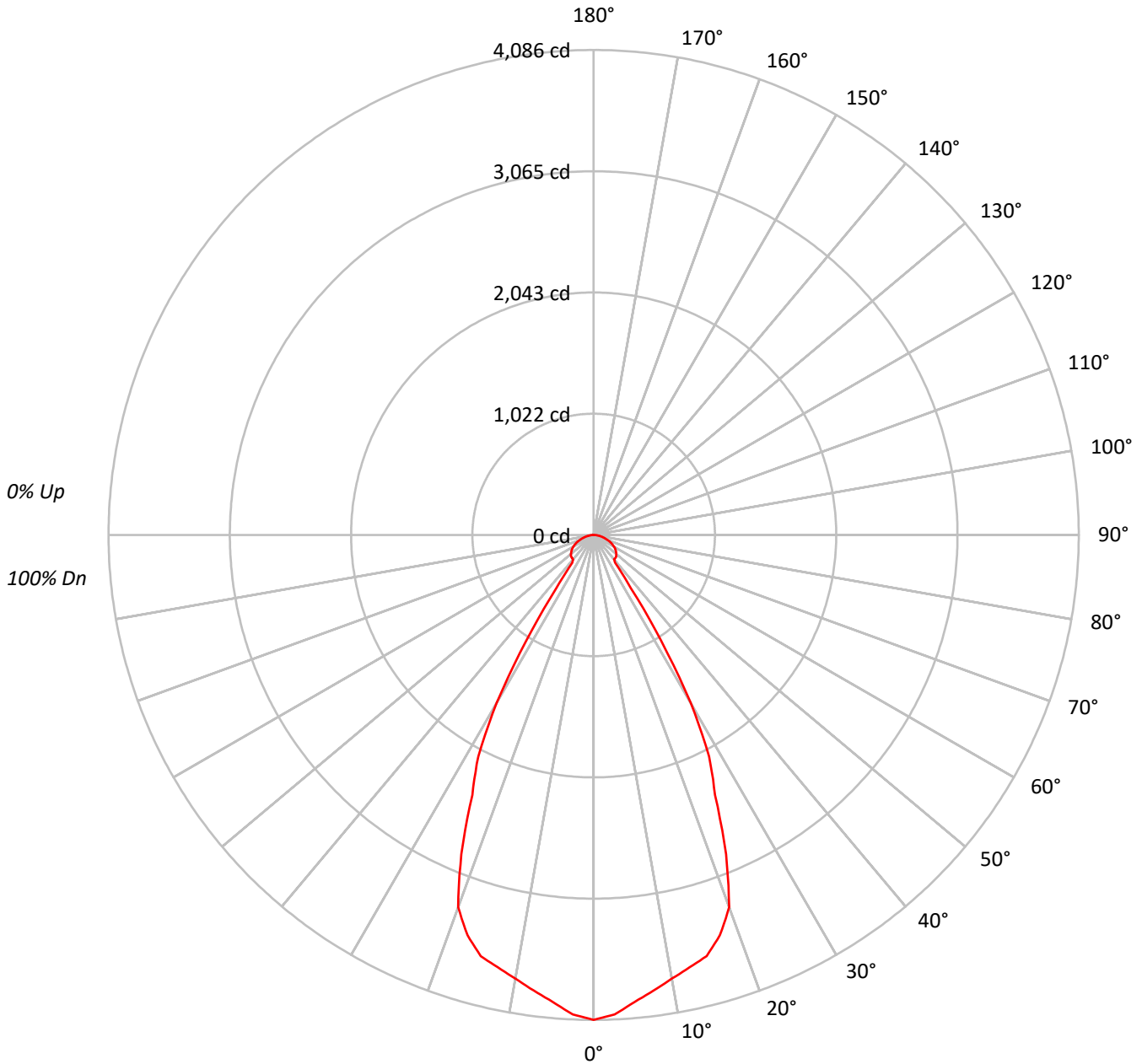
Lumens per Lamp: N/A
Luminaire Lumens: 3634.4 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 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									
RC	80									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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91																			
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83																			
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76																			
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70																			
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65																			
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61																			
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57																			
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53																			
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50																			
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	446461
5°	433196
10°	421119
15°	415596
20°	388072
25°	291540
30°	206101
35°	73000
40°	38382
45°	40885
50°	42342
55°	43127
60°	43398
65°	42477
70°	40092
75°	37149
80°	32970
85°	26702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 43416 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.5	10.3
10°-20°	1021.9	28.1
20°-30°	1125.4	31.0
30°-40°	430.0	11.8
40°-50°	203.0	5.6
50°-60°	201.8	5.6
60°-70°	161.6	4.4
70°-80°	92.9	2.6
80°-90°	25.2	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°	2519.8	69.3
0°-40°	2949.8	81.2
0°-60°	3354.7	92.3
0°-90°	3634.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3634.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4086	
5°	3950	373
15°	3674	1022
25°	2418	1125
35°	547	430
45°	265	203
55°	226	202
65°	164	162
75°	88	93
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4086.2
2.5°	4043.5
5°	3949.7
7.5°	3871.4
10°	3795.7
12.5°	3731.6
15°	3674.1
17.5°	3535.0
20°	3337.6
22.5°	2911.9
25°	2418.3
27.5°	2105.2
30°	1633.6
32.5°	1055.2
35°	547.3
37.5°	295.7
40°	269.1
42.5°	267.2
45°	264.6
47.5°	258.8
50°	249.1
52.5°	238.1
55°	226.4
57.5°	213.5
60°	198.6
62.5°	181.8
65°	164.3
67.5°	144.9
70°	125.5
72.5°	106.1
75°	88.0
77.5°	69.2
80°	52.4
82.5°	36.9
85°	21.3
87.5°	8.4
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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