

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: P749006

Luminaire Tested: LD4D45BD010-EU4DR7040509050-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P749006
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: LD4D45BD010-EU4DR7040509050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

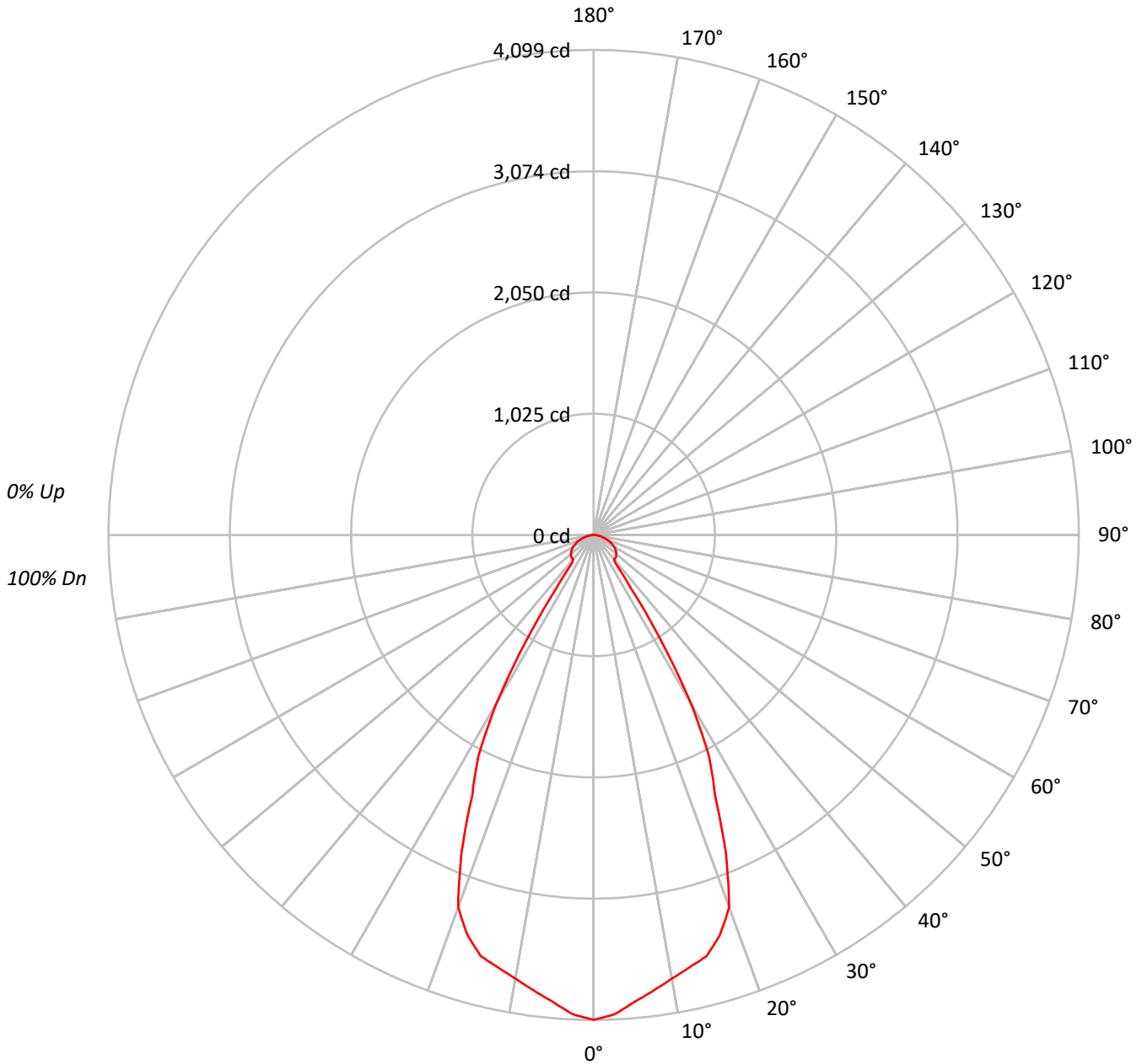
Lumens per Lamp: N/A
Luminaire Lumens: 3645.5 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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°	447816
5°	434512
10°	422406
15°	416863
20°	389258
25°	292432
30°	206719
35°	73227
40°	38510
45°	41009
50°	42461
55°	43260
60°	43529
65°	42606
70°	40220
75°	37276
80°	33096
85°	26828

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 43538 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.7	10.3
10°-20°	1025.0	28.1
20°-30°	1128.9	31.0
30°-40°	431.3	11.8
40°-50°	203.7	5.6
50°-60°	202.4	5.6
60°-70°	162.1	4.4
70°-80°	93.2	2.6
80°-90°	25.3	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°	2527.5	69.3
0°-40°	2958.8	81.2
0°-60°	3364.9	92.3
0°-90°	3645.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3645.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4099	
5°	3962	374
15°	3685	1025
25°	2426	1129
35°	549	431
45°	265	204
55°	227	202
65°	165	162
75°	88	93
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4098.6
2.5°	4055.8
5°	3961.7
7.5°	3883.2
10°	3807.3
12.5°	3743.0
15°	3685.3
17.5°	3545.7
20°	3347.8
22.5°	2920.8
25°	2425.7
27.5°	2111.6
30°	1638.5
32.5°	1058.4
35°	549.0
37.5°	296.6
40°	270.0
42.5°	268.0
45°	265.4
47.5°	259.6
50°	249.8
52.5°	238.8
55°	227.1
57.5°	214.1
60°	199.2
62.5°	182.3
65°	164.8
67.5°	145.4
70°	125.9
72.5°	106.4
75°	88.3
77.5°	69.4
80°	52.6
82.5°	37.0
85°	21.4
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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