

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: P748993

Luminaire Tested: LD4D45BD010-EU4DR7040509040-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748993
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-EU4DR7040509040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3619.7 lumens
Efficiency: N/A
Efficacy: 93.5 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

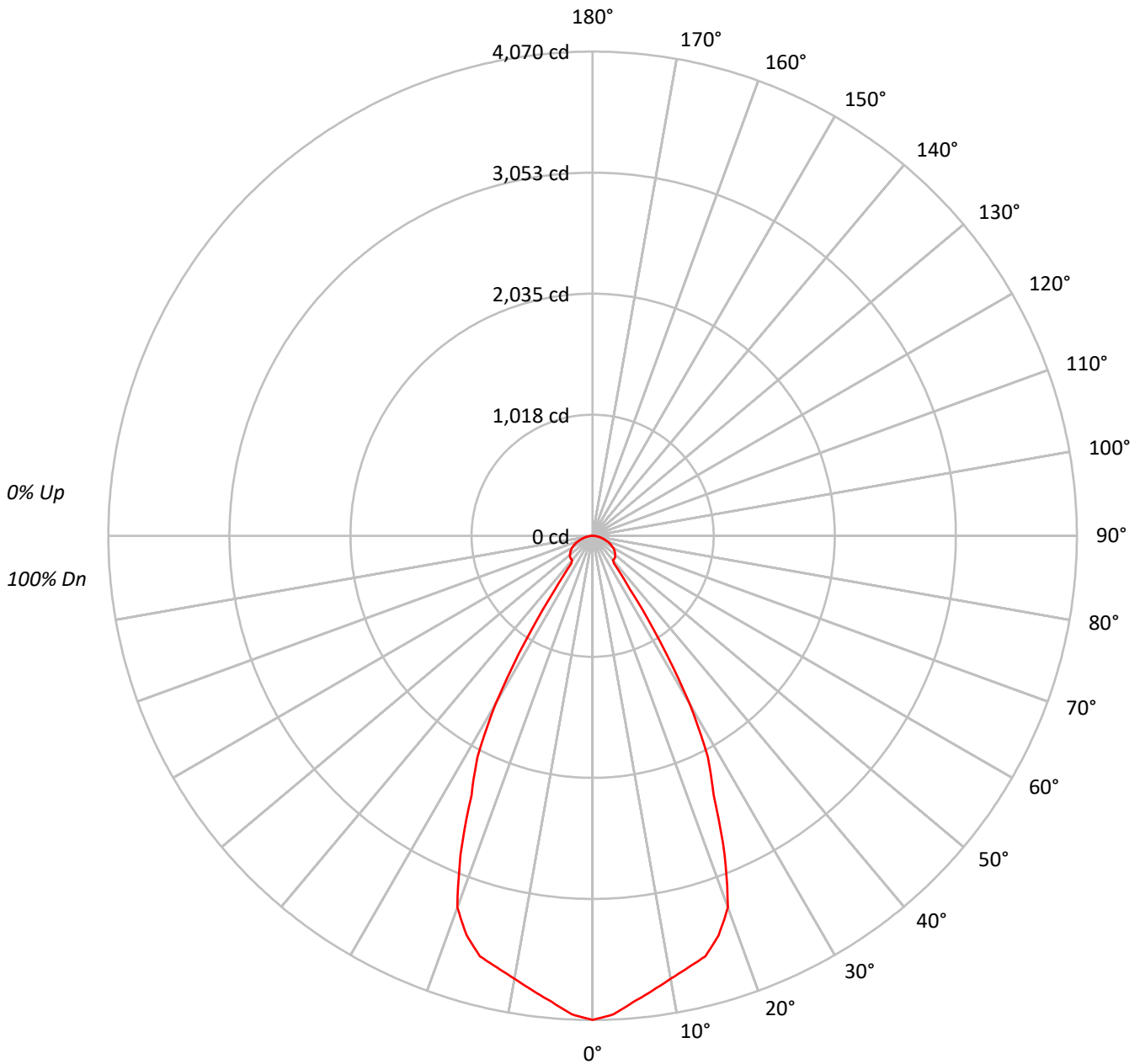
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	444648
5°	431430
10°	419410
15°	413899
20°	386503
25°	290359
30°	205255
35°	72707
40°	38225
45°	40716
50°	42172
55°	42956
60°	43224
65°	42322
70°	39932
75°	36980
80°	32845
85°	26702

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 43233 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.0	10.3
10°-20°	1017.7	28.1
20°-30°	1120.9	31.0
30°-40°	428.3	11.8
40°-50°	202.2	5.6
50°-60°	201.0	5.6
60°-70°	161.0	4.4
70°-80°	92.5	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°	2509.6	69.3
0°-40°	2937.8	81.2
0°-60°	3341.0	92.3
0°-90°	3619.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3619.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4070	
5°	3934	371
15°	3659	1018
25°	2408	1121
35°	545	428
45°	264	202
55°	226	201
65°	164	161
75°	88	92
85°	21	25
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4069.6
2.5°	4027.0
5°	3933.6
7.5°	3855.6
10°	3780.3
12.5°	3716.5
15°	3659.1
17.5°	3520.6
20°	3324.1
22.5°	2900.1
25°	2408.5
27.5°	2096.6
30°	1626.9
32.5°	1050.9
35°	545.1
37.5°	294.5
40°	268.0
42.5°	266.1
45°	263.5
47.5°	257.7
50°	248.1
52.5°	237.1
55°	225.5
57.5°	212.6
60°	197.8
62.5°	181.1
65°	163.7
67.5°	144.3
70°	125.0
72.5°	105.7
75°	87.6
77.5°	68.9
80°	52.2
82.5°	36.7
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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