

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: P748811

Luminaire Tested: LD4D45BD010-EU4DR6040509030-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748811
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D45BD010-EU4DR6040509030-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3714.7 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

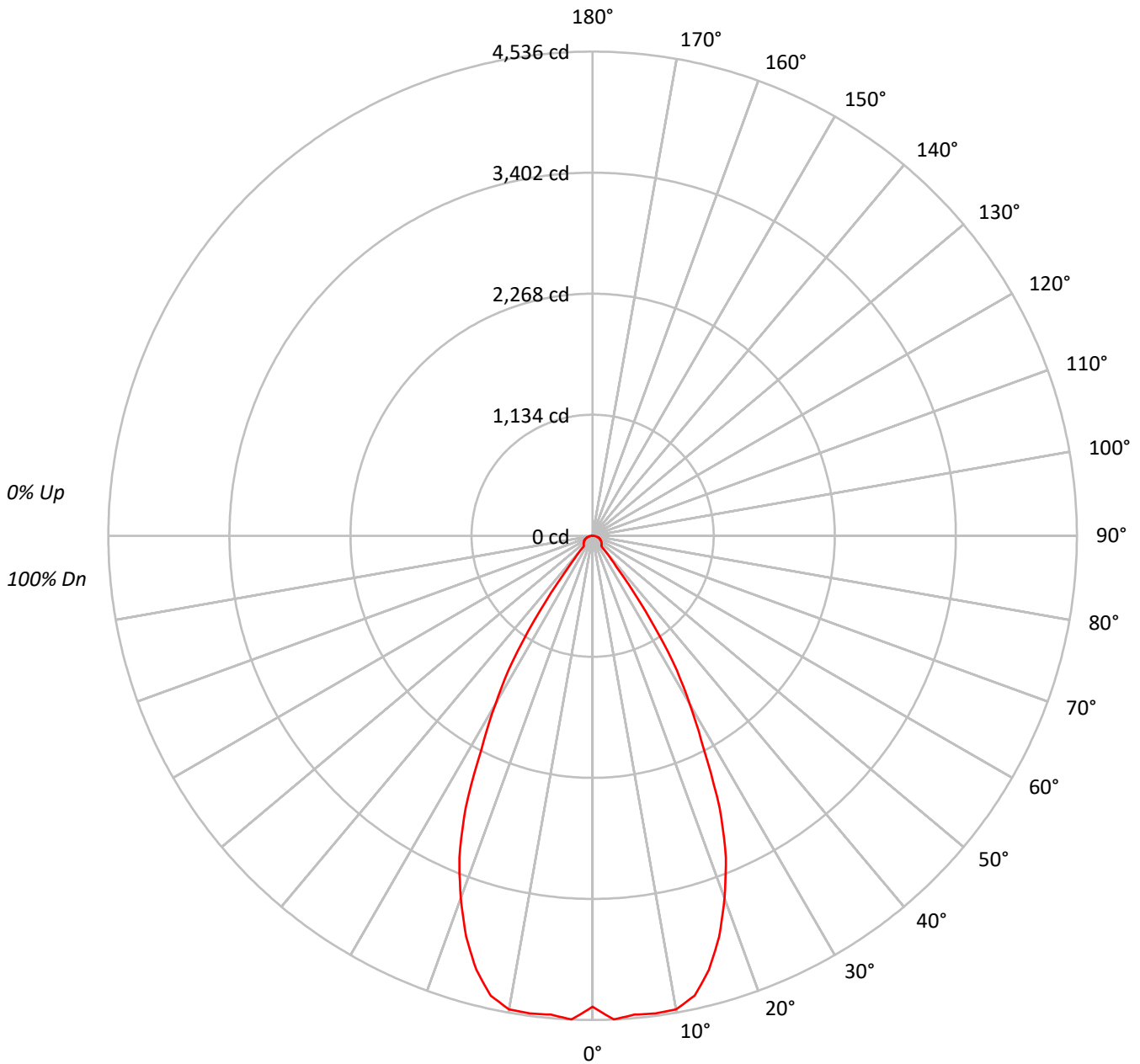
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93																			
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86																			
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80																			
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70																			
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66																			
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62																			
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59																			
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55																			
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	482015
5°	493870
10°	499835
15°	476158
20°	419826
25°	339570
30°	229693
35°	115096
40°	18670
45°	18279
50°	18647
55°	18916
60°	19448
65°	19881
70°	20349
75°	20601
80°	19883
85°	16548

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 20601 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.4	11.6
10°-20°	1164.4	31.3
20°-30°	1252.8	33.7
30°-40°	544.6	14.7
40°-50°	91.5	2.5
50°-60°	88.9	2.4
60°-70°	76.0	2.0
70°-80°	50.9	1.4
80°-90°	15.2	0.4
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°	2847.5	76.7
0°-40°	3392.1	91.3
0°-60°	3572.5	96.2
0°-90°	3714.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3714.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4412	
5°	4503	430
15°	4210	1164
25°	2817	1253
35°	863	545
45°	118	91
55°	99	89
65°	77	76
75°	49	51
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4411.6
2.5°	4535.6
5°	4502.9
7.5°	4513.2
10°	4505.2
12.5°	4412.2
15°	4209.5
17.5°	3937.4
20°	3610.7
22.5°	3261.1
25°	2816.7
27.5°	2252.9
30°	1820.6
32.5°	1403.2
35°	862.9
37.5°	369.2
40°	130.9
42.5°	120.6
45°	118.3
47.5°	114.3
50°	109.7
52.5°	104.5
55°	99.3
57.5°	94.2
60°	89.0
62.5°	83.2
65°	76.9
67.5°	70.6
70°	63.7
72.5°	56.3
75°	48.8
77.5°	40.2
80°	31.6
82.5°	22.4
85°	13.2
87.5°	4.6
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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