

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: P748798

Luminaire Tested: LD4D45BD010-EU4DR6040509027-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748798
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-EU4DR6040509027-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

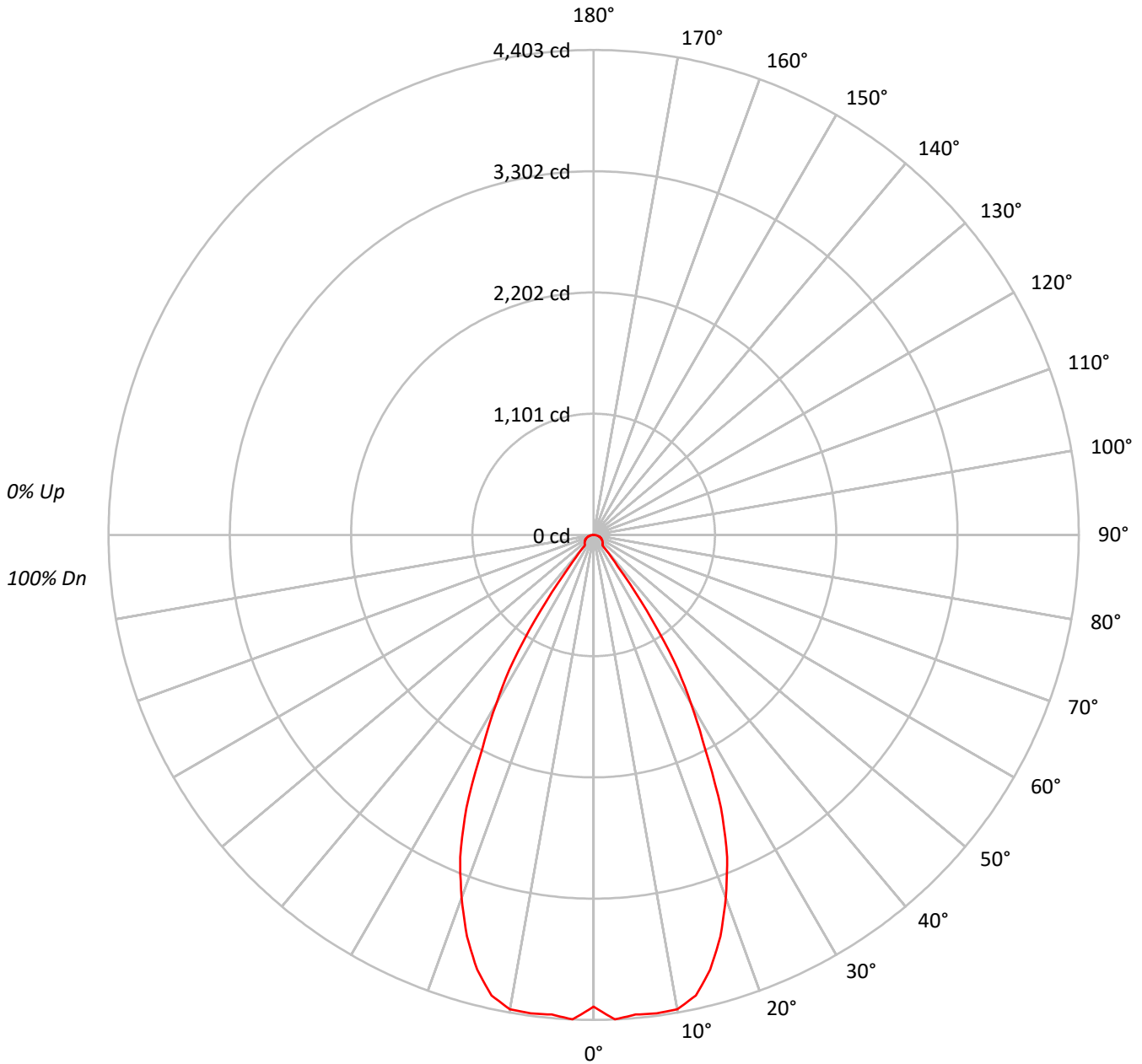
Lumens per Lamp: N/A
Luminaire Lumens: 3605.7 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70	70	70	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66	66	66	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62	62	62	62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59	59	59	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55	55	55	55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	467876
5°	479381
10°	485168
15°	462188
20°	407513
25°	329612
30°	222956
35°	111721
40°	18128
45°	17739
50°	18086
55°	18363
60°	18880
65°	19312
70°	19774
75°	20010
80°	19317
85°	16046

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 20010 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.7	11.6
10°-20°	1130.2	31.3
20°-30°	1216.0	33.7
30°-40°	528.6	14.7
40°-50°	88.8	2.5
50°-60°	86.3	2.4
60°-70°	73.8	2.0
70°-80°	49.4	1.4
80°-90°	14.8	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°	2764.0	76.7
0°-40°	3292.6	91.3
0°-60°	3467.7	96.2
0°-90°	3605.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3605.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4282	
5°	4371	418
15°	4086	1130
25°	2734	1216
35°	838	529
45°	115	89
55°	96	86
65°	75	74
75°	47	49
85°	13	15
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4282.2
2.5°	4402.6
5°	4370.8
7.5°	4380.8
10°	4373.0
12.5°	4282.8
15°	4086.0
17.5°	3821.9
20°	3504.8
22.5°	3165.4
25°	2734.1
27.5°	2186.8
30°	1767.2
32.5°	1362.0
35°	837.6
37.5°	358.3
40°	127.1
42.5°	117.0
45°	114.8
47.5°	110.9
50°	106.4
52.5°	101.4
55°	96.4
57.5°	91.4
60°	86.4
62.5°	80.8
65°	74.7
67.5°	68.5
70°	61.9
72.5°	54.6
75°	47.4
77.5°	39.0
80°	30.7
82.5°	21.7
85°	12.8
87.5°	4.5
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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