

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: P755168

Luminaire Tested: LD4D85BD010-EU4DR6570959050-4LBSQW1MW

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755168
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR6570959050-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

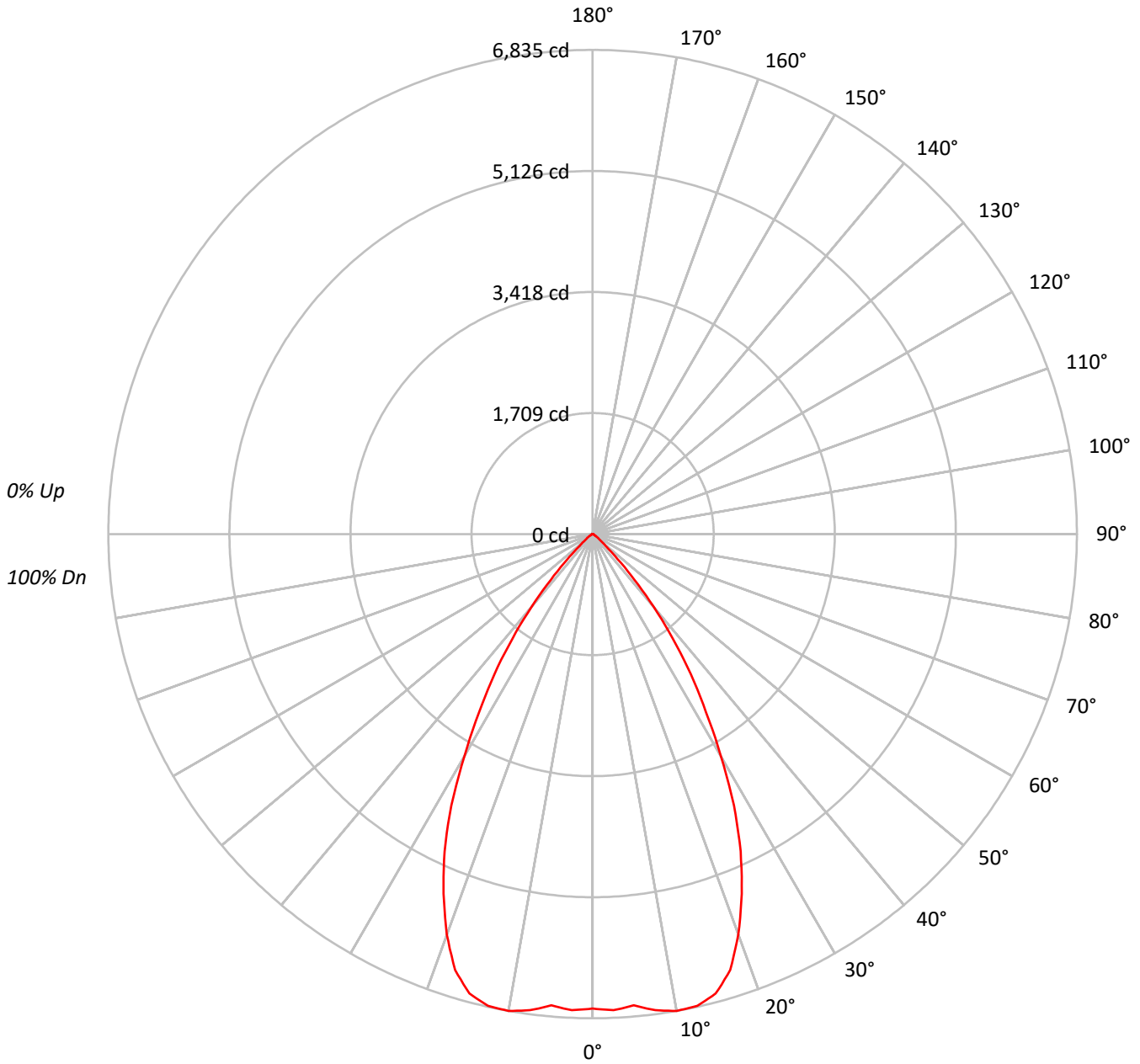
Lumens per Lamp: N/A
Luminaire Lumens: 6804.1 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93																			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87																			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80																			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75																			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69																			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65																			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60																			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57																			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53																			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50																			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	731949
5°	732551
10°	758340
15°	759590
20°	699335
25°	595872
30°	456157
35°	322266
40°	190225
45°	77228
50°	27996
55°	15601
60°	8938
65°	4912
70°	5175
75°	4010
80°	4216
85°	3636

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 77228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	645.1	9.5
10°-20°	1860.7	27.3
20°-30°	2232.5	32.8
30°-40°	1500.3	22.1
40°-50°	449.1	6.6
50°-60°	79.3	1.2
60°-70°	22.5	0.3
70°-80°	11.1	0.2
80°-90°	3.5	0.1
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°	4738.3	69.6
0°-40°	6238.6	91.7
0°-60°	6767.0	99.5
0°-90°	6804.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6804.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	6699	
5°	6679	645
15°	6715	1861
25°	4943	2233
35°	2416	1500
45°	500	449
55°	82	79
65°	19	23
75°	10	11
85°	3	4
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	6699.1
2.5°	6727.6
5°	6679.1
7.5°	6780.0
10°	6835.2
12.5°	6821.9
15°	6715.2
17.5°	6454.4
20°	6014.6
22.5°	5496.7
25°	4942.7
27.5°	4317.2
30°	3615.6
32.5°	2979.7
35°	2416.1
37.5°	1859.2
40°	1333.7
42.5°	871.1
45°	499.8
47.5°	264.6
50°	164.7
52.5°	114.2
55°	81.9
57.5°	59.0
60°	40.9
62.5°	26.7
65°	19.0
67.5°	17.1
70°	16.2
72.5°	12.4
75°	9.5
77.5°	8.6
80°	6.7
82.5°	4.8
85°	2.9
87.5°	1.9
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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