

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: P755180

Luminaire Tested: LD4D85BD010-EU4DR7070959024-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P755180
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: LD4D85BD010-EU4DR7070959024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

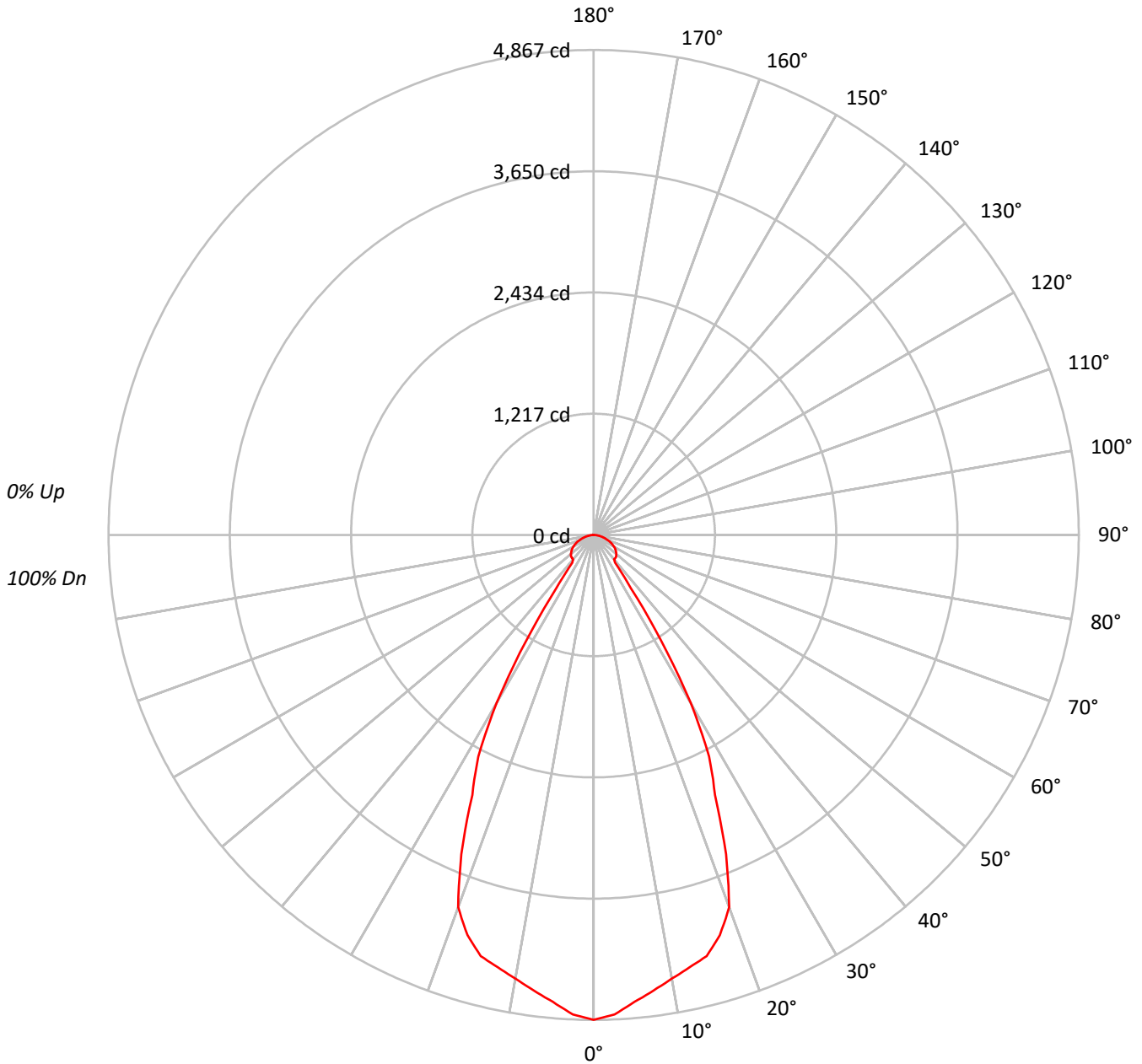
Lumens per Lamp: N/A
Luminaire Lumens: 4328.7 lumens
Efficiency: N/A
Efficacy: 49.4 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91			91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83			83
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76			76
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70			70
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65			65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61			61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57			57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53			53
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50			50
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48			48

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	531739
5°	515937
10°	501555
15°	494980
20°	462208
25°	347237
30°	245464
35°	86952
40°	45713
45°	48689
50°	50433
55°	51375
60°	51702
65°	50595
70°	47759
75°	44241
80°	39263
85°	31842

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 51712 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	443.7	10.3
10°-20°	1217.1	28.1
20°-30°	1340.4	31.0
30°-40°	512.1	11.8
40°-50°	241.8	5.6
50°-60°	240.4	5.6
60°-70°	192.5	4.4
70°-80°	110.6	2.6
80°-90°	30.1	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°	3001.2	69.3
0°-40°	3513.3	81.2
0°-60°	3995.5	92.3
0°-90°	4328.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4328.7	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	4867	
5°	4704	444
15°	4376	1217
25°	2880	1340
35°	652	512
45°	315	242
55°	270	240
65°	196	192
75°	105	111
85°	25	30
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	4866.7
2.5°	4815.9
5°	4704.1
7.5°	4610.9
10°	4520.7
12.5°	4444.5
15°	4375.9
17.5°	4210.2
20°	3975.2
22.5°	3468.2
25°	2880.3
27.5°	2507.3
30°	1945.6
32.5°	1256.7
35°	651.9
37.5°	352.1
40°	320.5
42.5°	318.2
45°	315.1
47.5°	308.2
50°	296.7
52.5°	283.6
55°	269.7
57.5°	254.3
60°	236.6
62.5°	216.5
65°	195.7
67.5°	172.6
70°	149.5
72.5°	126.4
75°	104.8
77.5°	82.4
80°	62.4
82.5°	43.9
85°	25.4
87.5°	10.0
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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(END OF REPORT)