

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: P754779

Luminaire Tested: LD4D85BD010-EU4DR4570959024-4LBCSSQMB

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P754779
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D85BD010-EU4DR4570959024-4LBCSSQMB
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 45° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6818.5 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 0.75 / 0.75 / 0.69
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

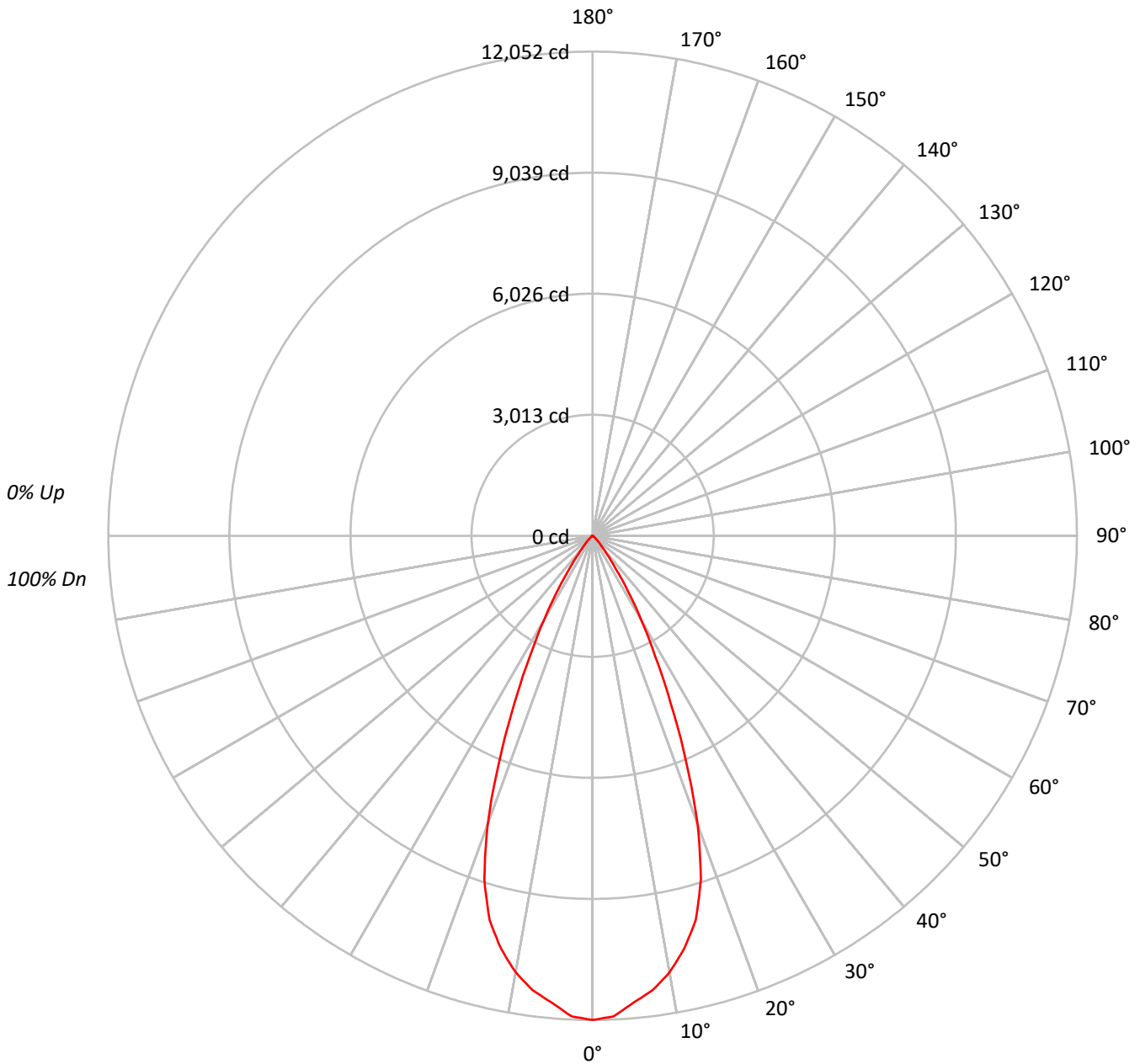
Input Watts (W): 87.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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				100															
1	114	112	110	108	112	110	108	106	106	104	103	102	101	100	98	98	97	95				95															
2	109	105	102	99	107	103	100	98	100	98	95	97	95	93	95	93	91	90				90															
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	89	87	85				85															
4	100	94	89	85	99	93	88	85	91	87	84	89	86	83	87	84	82	81				81															
5	96	89	84	80	95	88	83	80	86	82	79	85	81	79	83	80	78	77				77															
6	92	85	80	76	91	84	79	76	83	78	75	81	77	75	80	77	74	73				73															
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	69				69															
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66				66															
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	71	67	64	63				63															
10	79	70	65	62	78	70	65	62	69	65	62	68	64	61	68	64	61	60				60															

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1316800
5°	1279307
10°	1223948
15°	1120178
20°	888685
25°	554822
30°	305795
35°	137304
40°	54085
45°	25480
50°	12086
55°	6324
60°	3103
65°	724
70°	288
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1096.0	16.1
10°-20°	2697.3	39.6
20°-30°	2136.0	31.3
30°-40°	711.3	10.4
40°-50°	141.2	2.1
50°-60°	32.1	0.5
60°-70°	4.6	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	5929.3	87.0
0°-40°	6640.6	97.4
0°-60°	6813.8	99.9
0°-90°	6818.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6818.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	12052	
5°	11664	###
15°	9903	2697
25°	4602	2136
35°	1029	711
45°	165	141
55°	33	32
65°	3	5
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	12051.9
2.5°	11973.2
5°	11664.2
7.5°	11409.2
10°	11031.9
12.5°	10529.5
15°	9903.0
17.5°	8960.7
20°	7643.1
22.5°	6073.4
25°	4602.2
27.5°	3369.9
30°	2423.8
32.5°	1648.4
35°	1029.4
37.5°	610.5
40°	379.2
42.5°	249.3
45°	164.9
47.5°	106.2
50°	71.1
52.5°	47.4
55°	33.2
57.5°	21.8
60°	14.2
62.5°	7.6
65°	2.8
67.5°	0.9
70°	0.9
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
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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