

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: P748901

Luminaire Tested: LD4D45BD010-EU4DR6540509035-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748901
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: LD4D45BD010-EU4DR6540509035-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

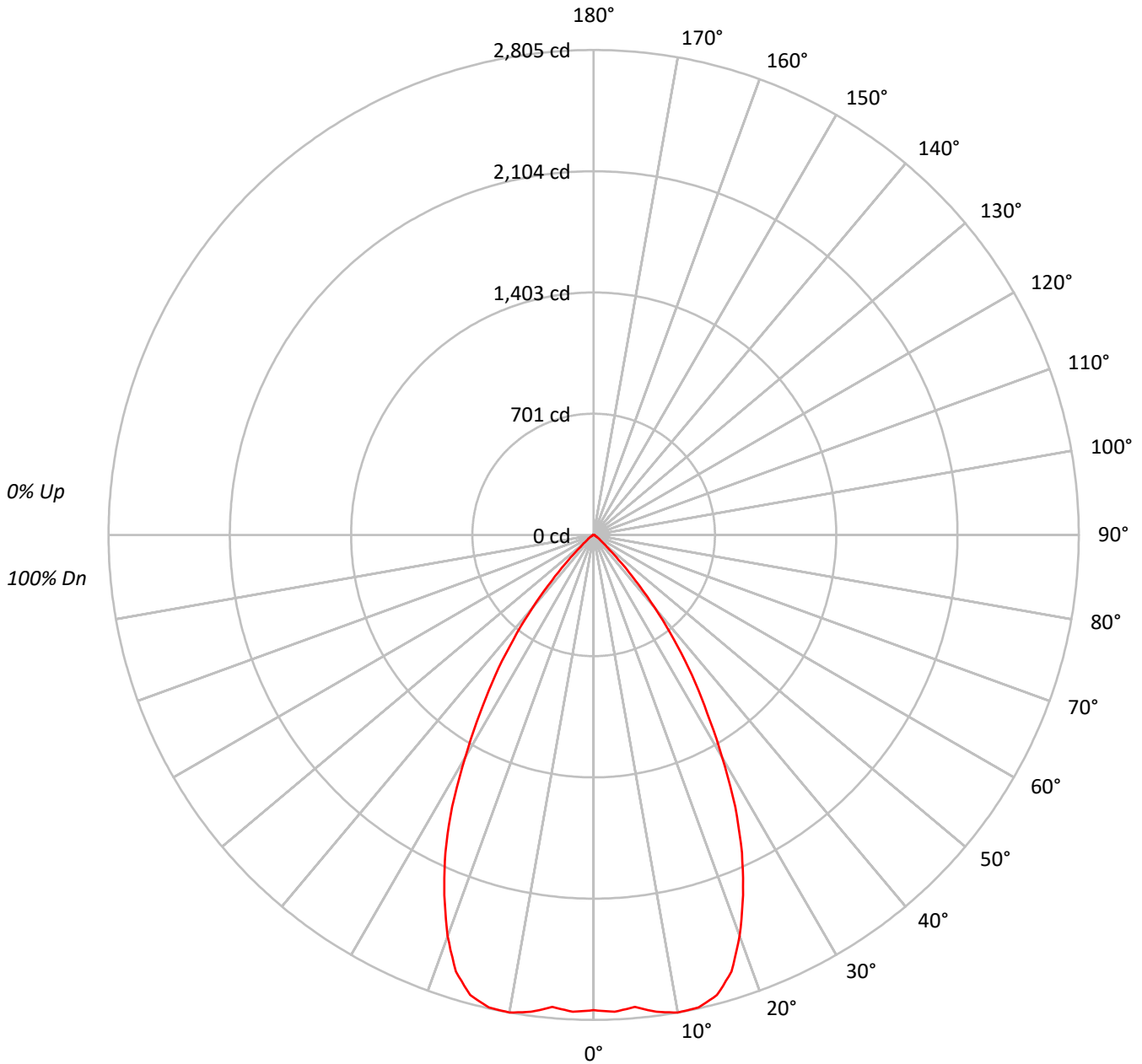
Lumens per Lamp: N/A
Luminaire Lumens: 2792.2 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 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				
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°	300380
5°	300628
10°	311204
15°	311722
20°	286996
25°	244536
30°	187201
35°	132249
40°	78061
45°	31692
50°	11491
55°	6400
60°	3671
65°	2017
70°	2108
75°	1646
80°	1699
85°	1504

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 31692 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.7	9.5
10°-20°	763.6	27.3
20°-30°	916.2	32.8
30°-40°	615.7	22.1
40°-50°	184.3	6.6
50°-60°	32.5	1.2
60°-70°	9.2	0.3
70°-80°	4.5	0.2
80°-90°	1.5	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°	1944.5	69.6
0°-40°	2560.2	91.7
0°-60°	2777.0	99.5
0°-90°	2792.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2792.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2749	
5°	2741	265
15°	2756	764
25°	2028	916
35°	992	616
45°	205	184
55°	34	33
65°	8	9
75°	4	5
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2749.2
2.5°	2760.9
5°	2741.0
7.5°	2782.4
10°	2805.0
12.5°	2799.6
15°	2755.8
17.5°	2648.8
20°	2468.3
22.5°	2255.7
25°	2028.4
27.5°	1771.7
30°	1483.8
32.5°	1222.8
35°	991.5
37.5°	763.0
40°	547.3
42.5°	357.5
45°	205.1
47.5°	108.6
50°	67.6
52.5°	46.9
55°	33.6
57.5°	24.2
60°	16.8
62.5°	10.9
65°	7.8
67.5°	7.0
70°	6.6
72.5°	5.1
75°	3.9
77.5°	3.5
80°	2.7
82.5°	2.0
85°	1.2
87.5°	0.8
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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