

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: P748095

Luminaire Tested: LD4D40BD010-EU4DR6540509027-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748095
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: LD4D40BD010-EU4DR6540509027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

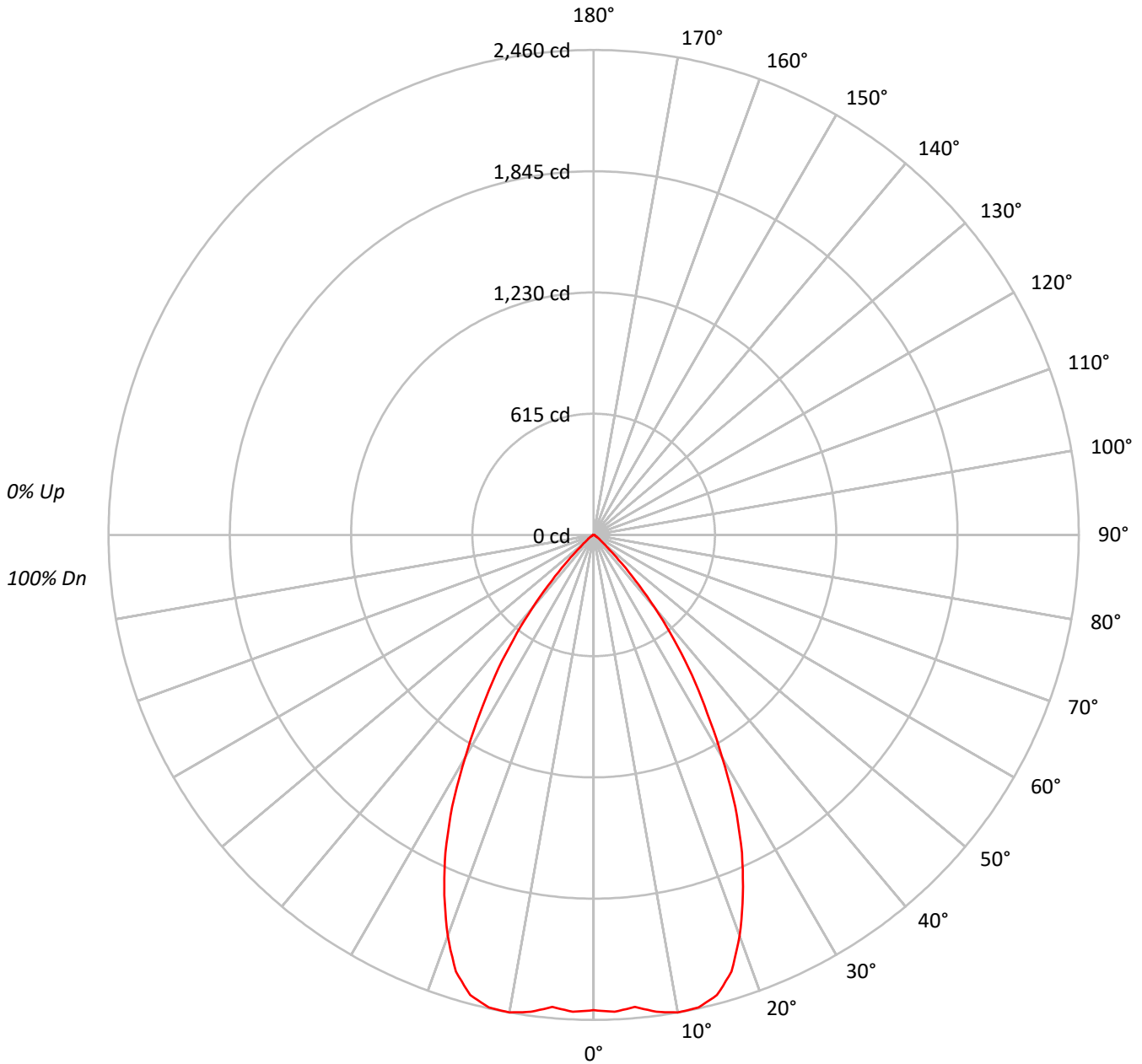
Lumens per Lamp: N/A
Luminaire Lumens: 2448.6 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 35.2
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	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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93					93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87					87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80					80			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75					75			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69					69			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65					65			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60					60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57					57			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53					53			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50					50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	263395
5°	263611
10°	272895
15°	273354
20°	251661
25°	214433
30°	164151
35°	115976
40°	68462
45°	27798
50°	10080
55°	5619
60°	3212
65°	1784
70°	1853
75°	1435
80°	1510
85°	1254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 27798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	9.5
10°-20°	669.6	27.3
20°-30°	803.4	32.8
30°-40°	539.9	22.1
40°-50°	161.6	6.6
50°-60°	28.5	1.2
60°-70°	8.1	0.3
70°-80°	4.0	0.2
80°-90°	1.3	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°	1705.1	69.6
0°-40°	2245.1	91.7
0°-60°	2435.2	99.5
0°-90°	2448.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2448.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2411	
5°	2404	232
15°	2417	670
25°	1779	803
35°	870	540
45°	180	162
55°	30	29
65°	7	8
75°	3	4
85°	1	1
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2410.7
2.5°	2421.0
5°	2403.5
7.5°	2439.9
10°	2459.7
12.5°	2454.9
15°	2416.6
17.5°	2322.7
20°	2164.4
22.5°	1978.1
25°	1778.7
27.5°	1553.6
30°	1301.1
32.5°	1072.3
35°	869.5
37.5°	669.1
40°	480.0
42.5°	313.5
45°	179.9
47.5°	95.2
50°	59.3
52.5°	41.1
55°	29.5
57.5°	21.2
60°	14.7
62.5°	9.6
65°	6.9
67.5°	6.2
70°	5.8
72.5°	4.5
75°	3.4
77.5°	3.1
80°	2.4
82.5°	1.7
85°	1.0
87.5°	0.7
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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