

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: P748225

Luminaire Tested: LD4D40BD010-EU4DR7040509050-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748225
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: LD4D40BD010-EU4DR7040509050-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 70° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

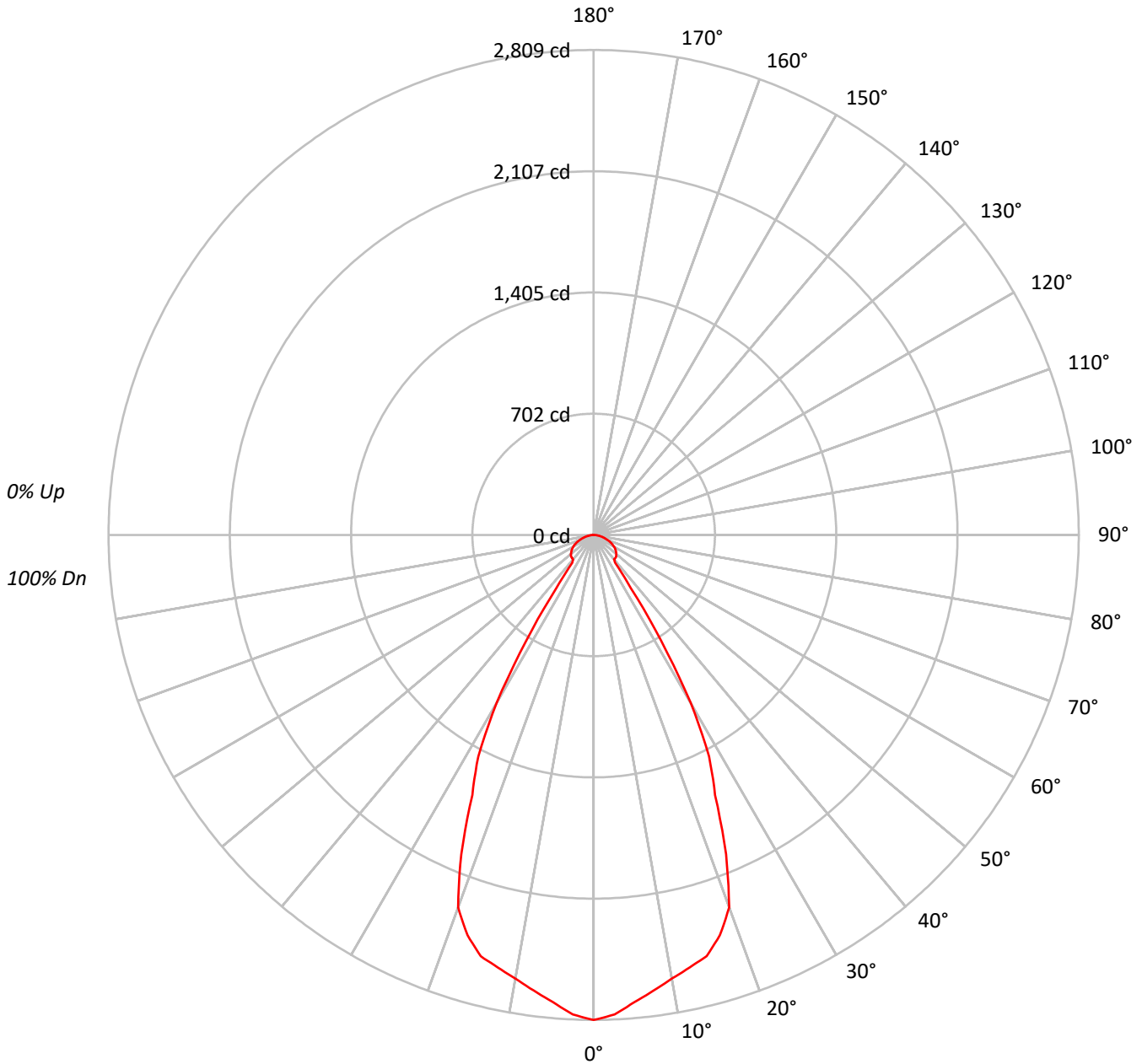
Lumens per Lamp: N/A
Luminaire Lumens: 2498.9 lumens
Efficiency: N/A
Efficacy: 71.0 lumens/watt
Spacing Criteria (0/90/45): 0.88 / 0.88 / 0.82
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	95	94	93	91		
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83		
3	100	92	87	82	98	91	86	81	88	84	80	86	82	79	83	80	78	76		
4	94	86	80	75	92	85	79	74	82	77	73	80	76	73	78	75	72	70		
5	89	80	74	69	87	79	73	69	77	72	68	75	71	67	74	70	67	65		
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61		
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57		
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53		
9	73	63	57	52	72	62	56	52	61	56	52	60	55	52	60	55	52	50		
10	70	59	53	49	69	59	53	49	58	53	49	57	52	49	57	52	49	48		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	306957
5°	297842
10°	289537
15°	285740
20°	266823
25°	200448
30°	141707
35°	50192
40°	26387
45°	28107
50°	29117
55°	29659
60°	29850
65°	29214
70°	27569
75°	25540
80°	22651
85°	18428

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 57.5°
 Luminance: 29852 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.1	10.3
10°-20°	702.6	28.1
20°-30°	773.8	31.0
30°-40°	295.6	11.8
40°-50°	139.6	5.6
50°-60°	138.8	5.6
60°-70°	111.1	4.4
70°-80°	63.8	2.6
80°-90°	17.4	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°	1732.5	69.3
0°-40°	2028.2	81.2
0°-60°	2306.5	92.3
0°-90°	2498.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2498.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	2809	
5°	2716	256
15°	2526	703
25°	1663	774
35°	376	296
45°	182	140
55°	156	139
65°	113	111
75°	60	64
85°	15	17
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2809.4
2.5°	2780.1
5°	2715.6
7.5°	2661.8
10°	2609.7
12.5°	2565.7
15°	2526.1
17.5°	2430.5
20°	2294.8
22.5°	2002.1
25°	1662.7
27.5°	1447.4
30°	1123.2
32.5°	725.5
35°	376.3
37.5°	203.3
40°	185.0
42.5°	183.7
45°	181.9
47.5°	177.9
50°	171.3
52.5°	163.7
55°	155.7
57.5°	146.8
60°	136.6
62.5°	125.0
65°	113.0
67.5°	99.6
70°	86.3
72.5°	72.9
75°	60.5
77.5°	47.6
80°	36.0
82.5°	25.4
85°	14.7
87.5°	5.8
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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