

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: P748004

Luminaire Tested: LD4D40BD010-EU4DR6040509024-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-57)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D40BD010-EU4DR6040509024-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

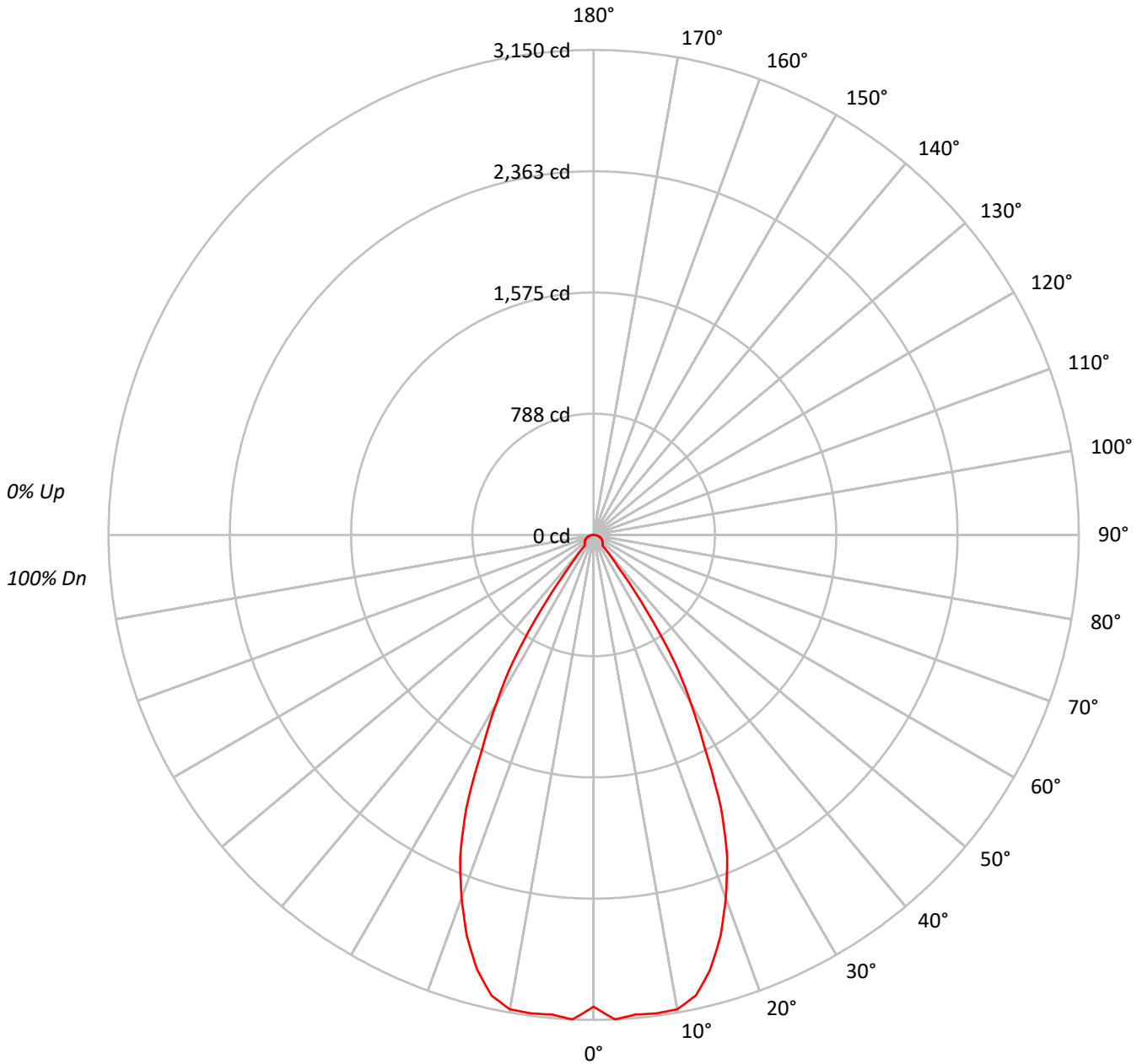
Lumens per Lamp: N/A
Luminaire Lumens: 2579.6 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93		
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86		
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80		
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75		
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70		
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66		
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62		
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59		
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55		
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53		

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	334731
5°	342963
10°	347107
15°	330669
20°	291543
25°	235807
30°	159508
35°	79923
40°	12965
45°	12686
50°	12952
55°	13144
60°	13505
65°	13806
70°	14152
75°	14311
80°	13780
85°	11533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 14311 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.9	11.6
10°-20°	808.6	31.3
20°-30°	870.0	33.7
30°-40°	378.2	14.7
40°-50°	63.5	2.5
50°-60°	61.8	2.4
60°-70°	52.8	2.0
70°-80°	35.4	1.4
80°-90°	10.6	0.4
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°	1977.4	76.7
0°-40°	2355.6	91.3
0°-60°	2480.9	96.2
0°-90°	2579.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3064	
5°	3127	299
15°	2923	809
25°	1956	870
35°	599	378
45°	82	63
55°	69	62
65°	53	53
75°	34	35
85°	9	11
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3063.6
2.5°	3149.7
5°	3127.0
7.5°	3134.2
10°	3128.6
12.5°	3064.0
15°	2923.3
17.5°	2734.3
20°	2507.4
22.5°	2264.6
25°	1956.0
27.5°	1564.5
30°	1264.3
32.5°	974.4
35°	599.2
37.5°	256.4
40°	90.9
42.5°	83.7
45°	82.1
47.5°	79.3
50°	76.2
52.5°	72.6
55°	69.0
57.5°	65.4
60°	61.8
62.5°	57.8
65°	53.4
67.5°	49.0
70°	44.3
72.5°	39.1
75°	33.9
77.5°	27.9
80°	21.9
82.5°	15.5
85°	9.2
87.5°	3.2
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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