

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: P748810

Luminaire Tested: LD4D45BD010-EU4DR6040509030-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748810
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: LD4D45BD010-EU4DR6040509030-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

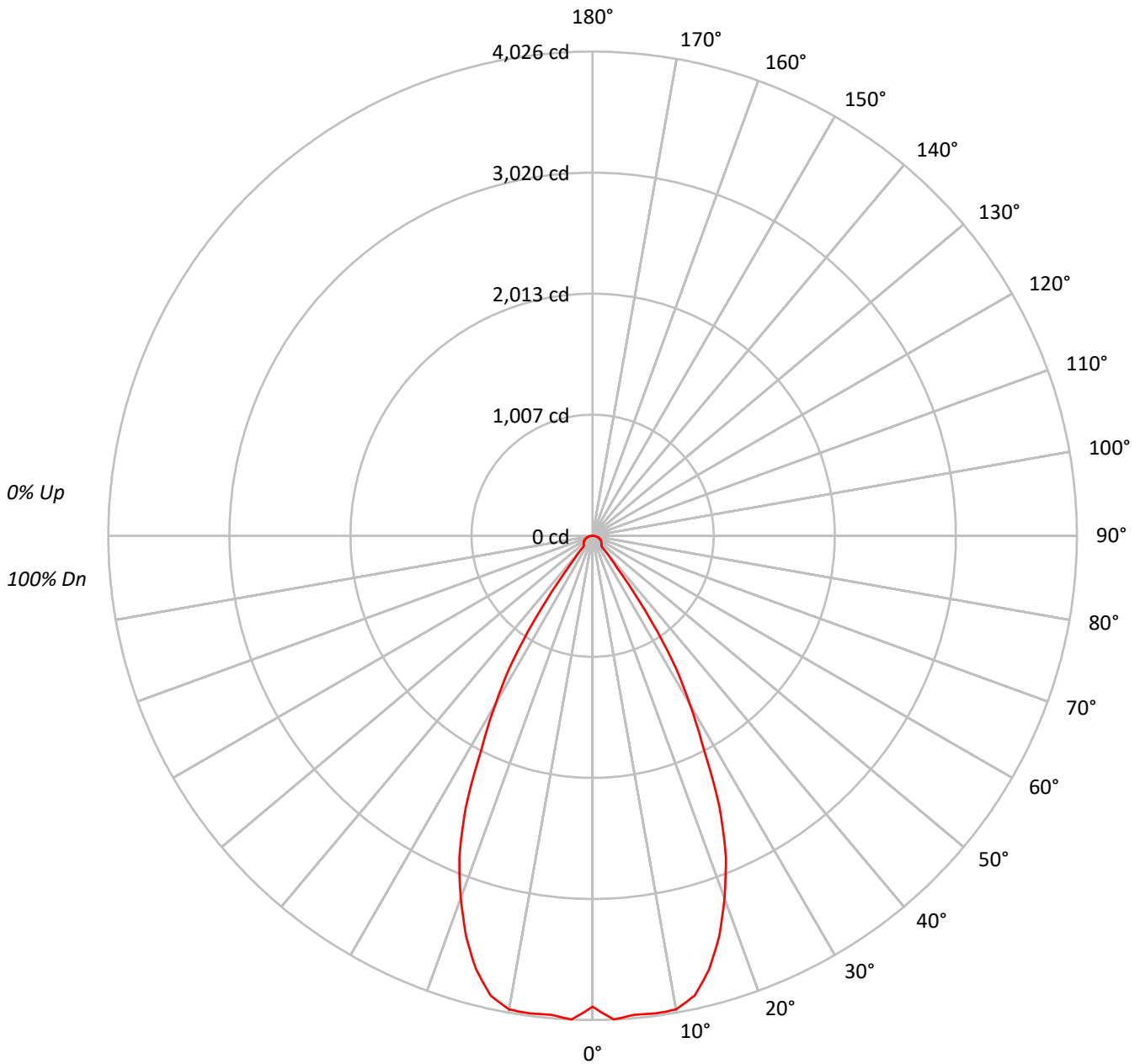
Lumens per Lamp: N/A
Luminaire Lumens: 3297.6 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (A_{in}): 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	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93			93																
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86			86																
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80			80																
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75			75																
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70			70																
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66			66																
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62			62																
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59			59																
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55			55																
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53			53																

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	427898
5°	438427
10°	443719
15°	422700
20°	372689
25°	301438
30°	203905
35°	102171
40°	16574
45°	16224
50°	16539
55°	16801
60°	17263
65°	17658
70°	18081
75°	18279
80°	17618
85°	14667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 18279 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.0	11.6
10°-20°	1033.6	31.3
20°-30°	1112.1	33.7
30°-40°	483.4	14.7
40°-50°	81.2	2.5
50°-60°	79.0	2.4
60°-70°	67.5	2.0
70°-80°	45.2	1.4
80°-90°	13.5	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°	2527.8	76.7
0°-40°	3011.2	91.3
0°-60°	3171.4	96.2
0°-90°	3297.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3297.6	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3916	
5°	3997	382
15°	3737	1034
25°	2500	1112
35°	766	483
45°	105	81
55°	88	79
65°	68	68
75°	43	45
85°	12	14
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3916.3
2.5°	4026.4
5°	3997.4
7.5°	4006.5
10°	3999.4
12.5°	3916.8
15°	3736.9
17.5°	3495.3
20°	3205.3
22.5°	2894.9
25°	2500.4
27.5°	2000.0
30°	1616.2
32.5°	1245.6
35°	766.0
37.5°	327.7
40°	116.2
42.5°	107.0
45°	105.0
47.5°	101.4
50°	97.3
52.5°	92.8
55°	88.2
57.5°	83.6
60°	79.0
62.5°	73.9
65°	68.3
67.5°	62.7
70°	56.6
72.5°	49.9
75°	43.3
77.5°	35.7
80°	28.0
82.5°	19.9
85°	11.7
87.5°	4.1
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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