

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: P748030

Luminaire Tested: LD4D40BD010-EU4DR6040509030-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748030
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-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

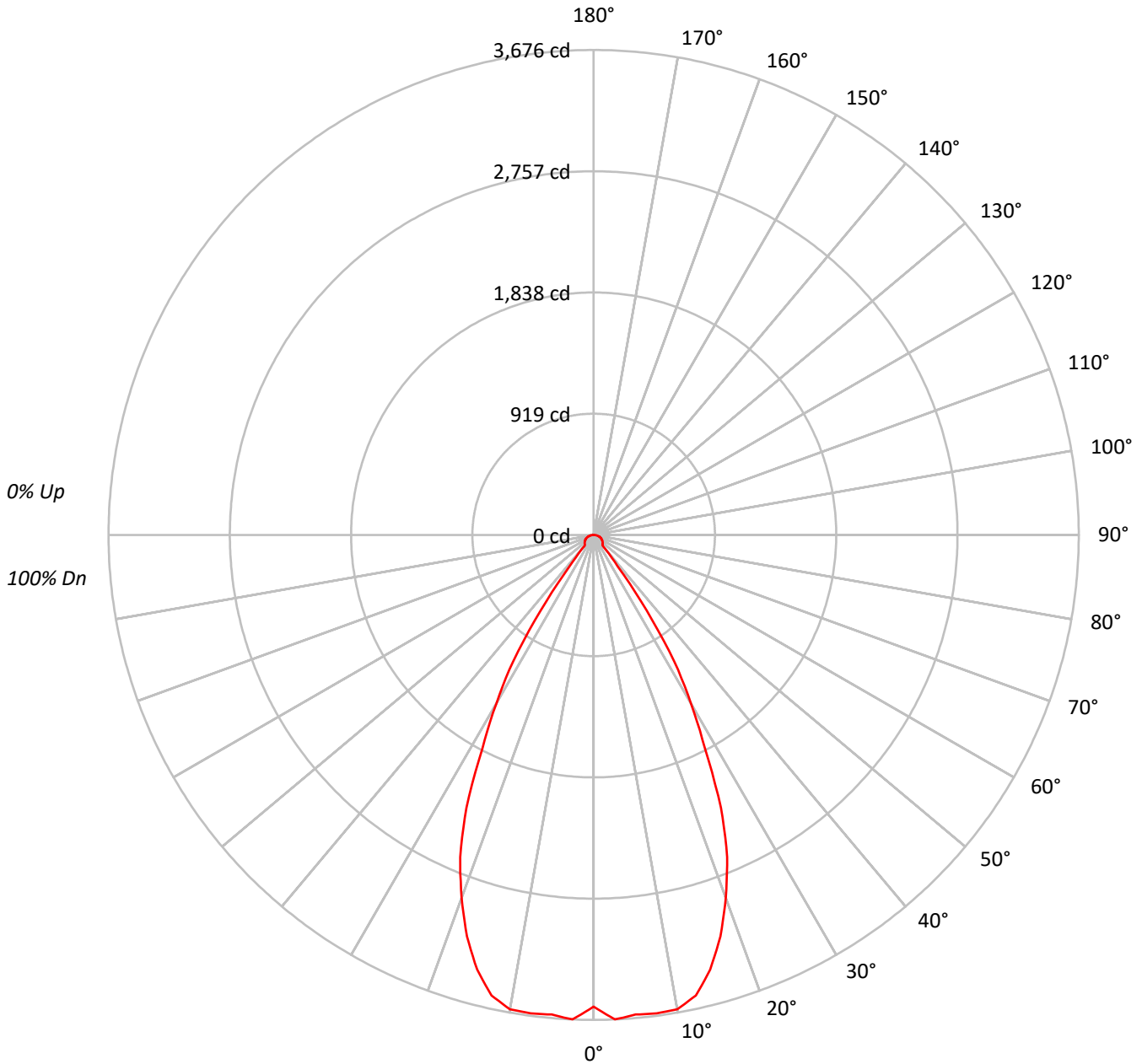
Lumens per Lamp: N/A
Luminaire Lumens: 3010.4 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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									
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°	390640
5°	400248
10°	405076
15°	385892
20°	340238
25°	275193
30°	186142
35°	93275
40°	15133
45°	14803
50°	15111
55°	15334
60°	15755
65°	16107
70°	16484
75°	16675
80°	16108
85°	13414

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 16675 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	348.8	11.6
10°-20°	943.6	31.3
20°-30°	1015.3	33.7
30°-40°	441.3	14.7
40°-50°	74.1	2.5
50°-60°	72.1	2.4
60°-70°	61.6	2.0
70°-80°	41.2	1.4
80°-90°	12.3	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°	2307.7	76.7
0°-40°	2749.0	91.3
0°-60°	2895.2	96.2
0°-90°	3010.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3575	
5°	3649	349
15°	3412	944
25°	2283	1015
35°	699	441
45°	96	74
55°	80	72
65°	62	62
75°	40	41
85°	11	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	3575.3
2.5°	3675.8
5°	3649.3
7.5°	3657.6
10°	3651.1
12.5°	3575.7
15°	3411.5
17.5°	3190.9
20°	2926.2
22.5°	2642.8
25°	2282.7
27.5°	1825.8
30°	1475.4
32.5°	1137.2
35°	699.3
37.5°	299.2
40°	106.1
42.5°	97.7
45°	95.8
47.5°	92.6
50°	88.9
52.5°	84.7
55°	80.5
57.5°	76.3
60°	72.1
62.5°	67.5
65°	62.3
67.5°	57.2
70°	51.6
72.5°	45.6
75°	39.5
77.5°	32.6
80°	25.6
82.5°	18.1
85°	10.7
87.5°	3.7
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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