

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: P748017

Luminaire Tested: LD4D40BD010-EU4DR6040509027-4LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P748017
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-EU4DR6040509027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 60° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

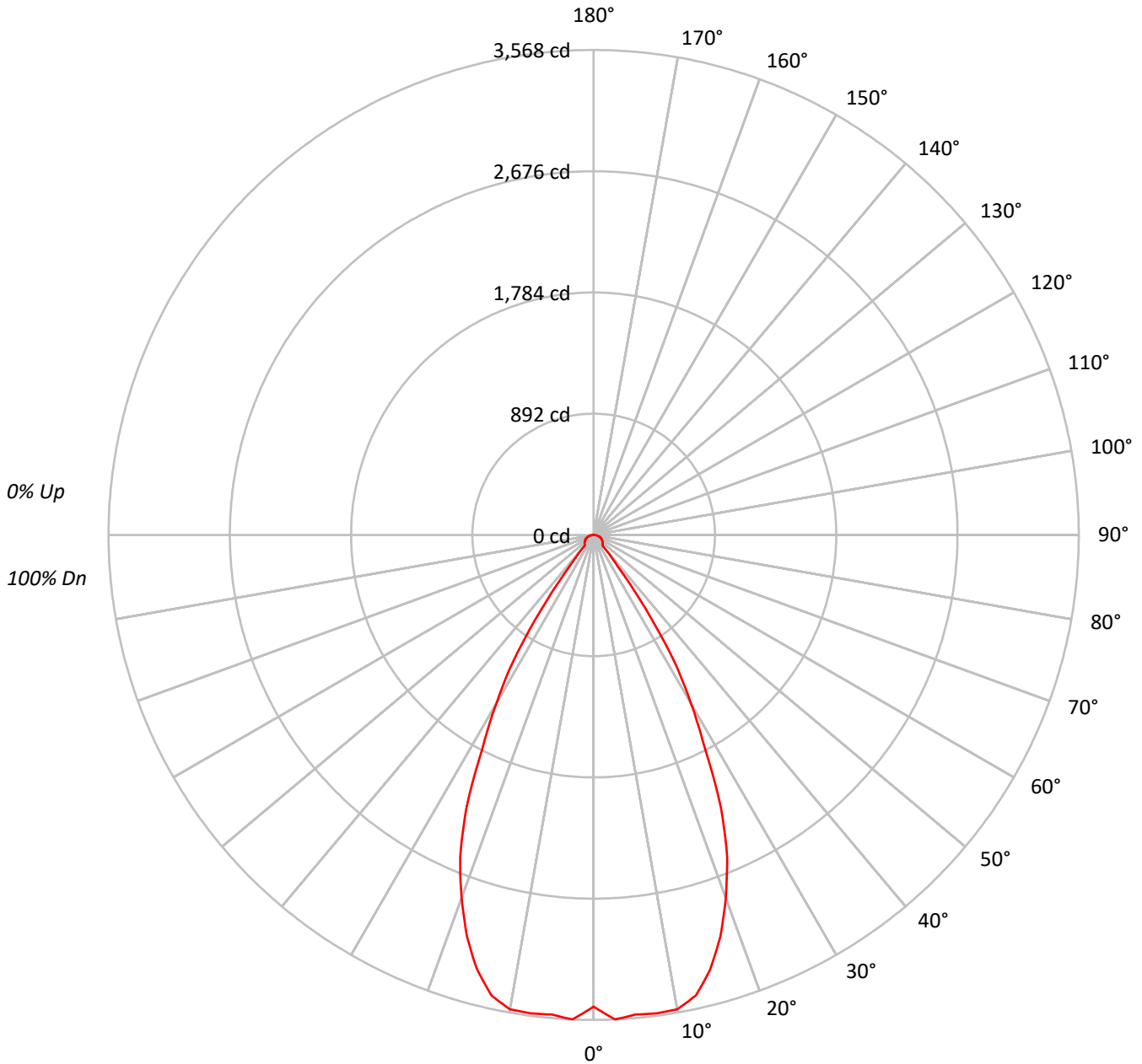
Lumens per Lamp: N/A
Luminaire Lumens: 2922.1 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 0.91 / 0.91 / 0.83
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P748017
CATALOG NUMBER: LD4D40BD010-EU4DR6040509027-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P748017

CATALOG NUMBER: LD4D40BD010-EU4DR6040509027-4LBSQW1B

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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	113	110	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93	93	93	93
2	107	102	98	95	105	101	97	94	97	94	92	94	92	90	92	90	88	86	86	86	86
3	102	96	90	86	100	94	89	86	91	88	84	89	86	83	87	84	82	80	80	80	80
4	97	89	84	80	95	88	83	79	86	82	78	84	80	77	82	79	76	75	75	75	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70	70	70	70
6	88	79	73	69	87	78	73	69	77	72	68	75	71	68	74	70	67	66	66	66	66
7	84	75	69	65	83	74	68	64	73	68	64	72	67	64	71	67	63	62	62	62	62
8	80	71	65	61	79	70	65	61	69	64	60	68	64	60	67	63	60	59	59	59	59
9	77	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55	55	55	55
10	73	64	58	54	72	63	58	54	62	58	54	62	57	54	61	57	54	53	53	53	53

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	379179
5°	388502
10°	393194
15°	374569
20°	330261
25°	267116
30°	180679
35°	90540
40°	14691
45°	14370
50°	14669
55°	14877
60°	15297
65°	15641
70°	16005
75°	16211
80°	15604
85°	13038

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 75°
 Luminance: 16211 cd/sqm



TEST NUMBER: P748017

CATALOG NUMBER: LD4D40BD010-EU4DR6040509027-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.5	11.6
10°-20°	916.0	31.3
20°-30°	985.5	33.7
30°-40°	428.4	14.7
40°-50°	71.9	2.5
50°-60°	70.0	2.4
60°-70°	59.8	2.0
70°-80°	40.0	1.4
80°-90°	12.0	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°	2240.0	76.7
0°-40°	2668.3	91.3
0°-60°	2810.3	96.2
0°-90°	2922.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2922.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3470	
5°	3542	339
15°	3311	916
25°	2216	985
35°	679	428
45°	93	72
55°	78	70
65°	60	60
75°	38	40
85°	10	12
90°	0	



TEST NUMBER: P748017

CATALOG NUMBER: LD4D40BD010-EU4DR6040509027-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	3470.4
2.5°	3568.0
5°	3542.2
7.5°	3550.3
10°	3544.0
12.5°	3470.8
15°	3311.4
17.5°	3097.3
20°	2840.4
22.5°	2565.3
25°	2215.7
27.5°	1772.2
30°	1432.1
32.5°	1103.8
35°	678.8
37.5°	290.4
40°	103.0
42.5°	94.8
45°	93.0
47.5°	89.9
50°	86.3
52.5°	82.2
55°	78.1
57.5°	74.1
60°	70.0
62.5°	65.5
65°	60.5
67.5°	55.6
70°	50.1
72.5°	44.3
75°	38.4
77.5°	31.6
80°	24.8
82.5°	17.6
85°	10.4
87.5°	3.6
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

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)