

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: P766978

Luminaire Tested: LD6D45BD010-EU6DR6540509040-6LBSQW1B

Issue Date: 2/5/2024

Test Information

Test Method: LM-79-2019
Report Number: P766978
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-59)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/5/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD6D45BD010-EU6DR6540509040-6LBSQW1B
Description: 6 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 65° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

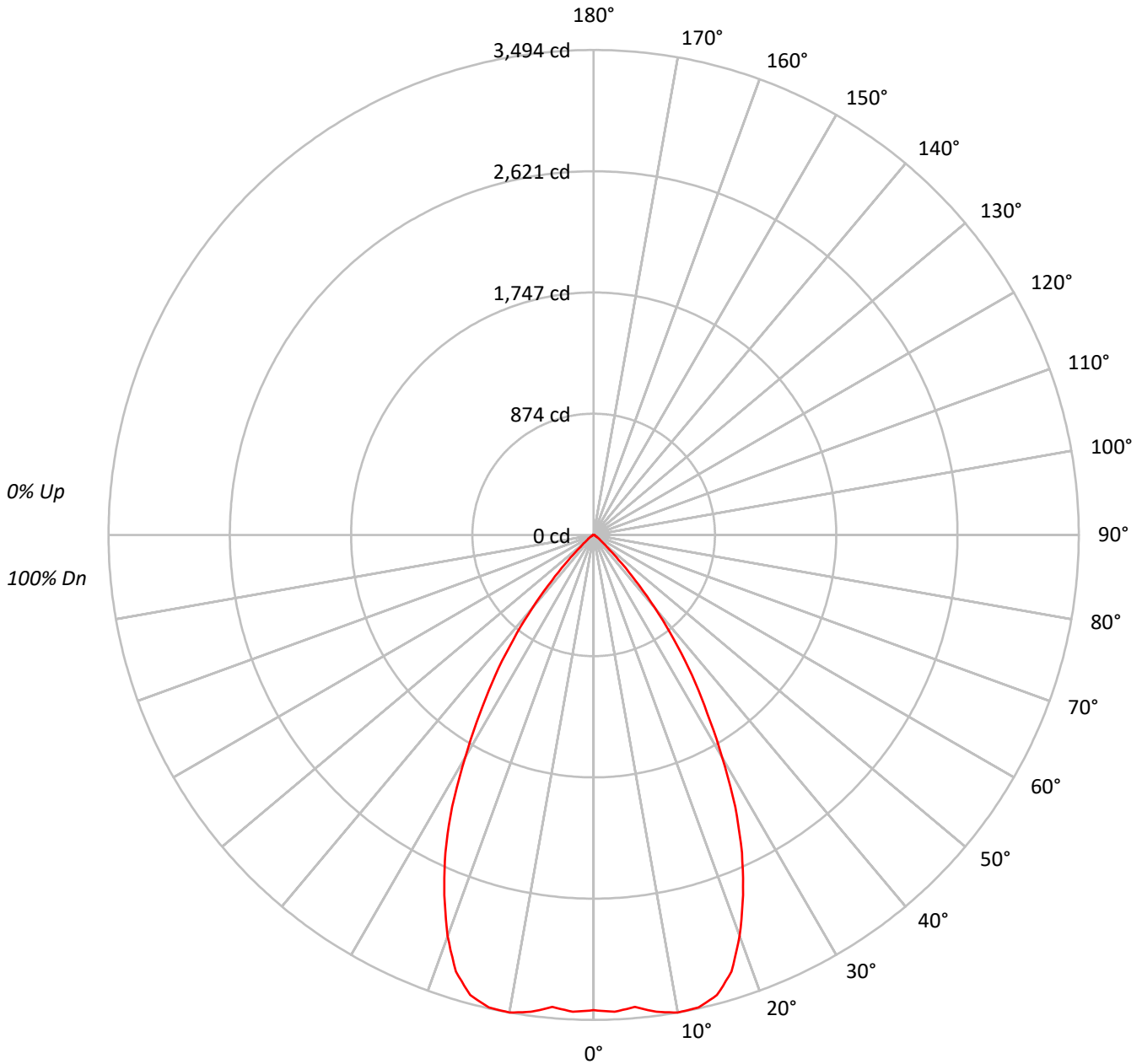
Lumens per Lamp: N/A
Luminaire Lumens: 3478.2 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 0.98 / 0.98 / 0.92
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 38.7
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: P766978
CATALOG NUMBER: LD6D45BD010-EU6DR6540509040-6LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P766978

CATALOG NUMBER: LD6D45BD010-EU6DR6540509040-6LBSQW1B

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			
1	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93			
2	108	103	99	95	106	101	97	94	98	95	92	95	92	90	92	90	88	87			
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80			
4	97	89	84	79	95	88	83	79	86	82	78	84	80	77	82	79	76	75			
5	92	83	78	73	90	83	77	73	81	76	72	79	75	72	77	74	71	69			
6	87	78	72	68	86	77	72	68	76	71	67	74	70	67	73	69	66	65			
7	83	73	67	63	81	73	67	63	71	66	62	70	66	62	69	65	62	60			
8	79	69	63	59	77	68	63	59	67	62	58	66	62	58	65	61	58	57			
9	75	65	59	55	74	65	59	55	64	58	55	63	58	55	62	58	54	53			
10	71	61	56	52	70	61	55	52	60	55	51	59	55	51	59	54	51	50			

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	374153
5°	374463
10°	387646
15°	388290
20°	357493
25°	304597
30°	233175
35°	164741
40°	97245
45°	39479
50°	14312
55°	7982
60°	4567
65°	2508
70°	2651
75°	2069
80°	2139
85°	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 39479 cd/sqm



TEST NUMBER: P766978

CATALOG NUMBER: LD6D45BD010-EU6DR6540509040-6LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.7	9.5
10°-20°	951.2	27.3
20°-30°	1141.2	32.8
30°-40°	766.9	22.1
40°-50°	229.6	6.6
50°-60°	40.5	1.2
60°-70°	11.5	0.3
70°-80°	5.7	0.2
80°-90°	1.8	0.1
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°	2422.1	69.6
0°-40°	3189.1	91.7
0°-60°	3459.2	99.5
0°-90°	3478.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3478.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	3424	
5°	3414	330
15°	3433	951
25°	2527	1141
35°	1235	767
45°	256	230
55°	42	41
65°	10	12
75°	5	6
85°	2	2
90°	0	



TEST NUMBER: P766978

CATALOG NUMBER: LD6D45BD010-EU6DR6540509040-6LBSQW1B

CANDELA DISTRIBUTION (FULL):

0°	
0°	3424.4
2.5°	3439.0
5°	3414.2
7.5°	3465.8
10°	3494.0
12.5°	3487.2
15°	3432.7
17.5°	3299.4
20°	3074.6
22.5°	2809.8
25°	2526.6
27.5°	2206.9
30°	1848.2
32.5°	1523.2
35°	1235.1
37.5°	950.4
40°	681.8
42.5°	445.3
45°	255.5
47.5°	135.3
50°	84.2
52.5°	58.4
55°	41.9
57.5°	30.2
60°	20.9
62.5°	13.6
65°	9.7
67.5°	8.8
70°	8.3
72.5°	6.3
75°	4.9
77.5°	4.4
80°	3.4
82.5°	2.4
85°	1.5
87.5°	1.0
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)