

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



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: P793149

Luminaire Tested: LER6D45BD010-EC6DR6540509050-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793149  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-147)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER6D45BD010-EC6DR6540509050-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

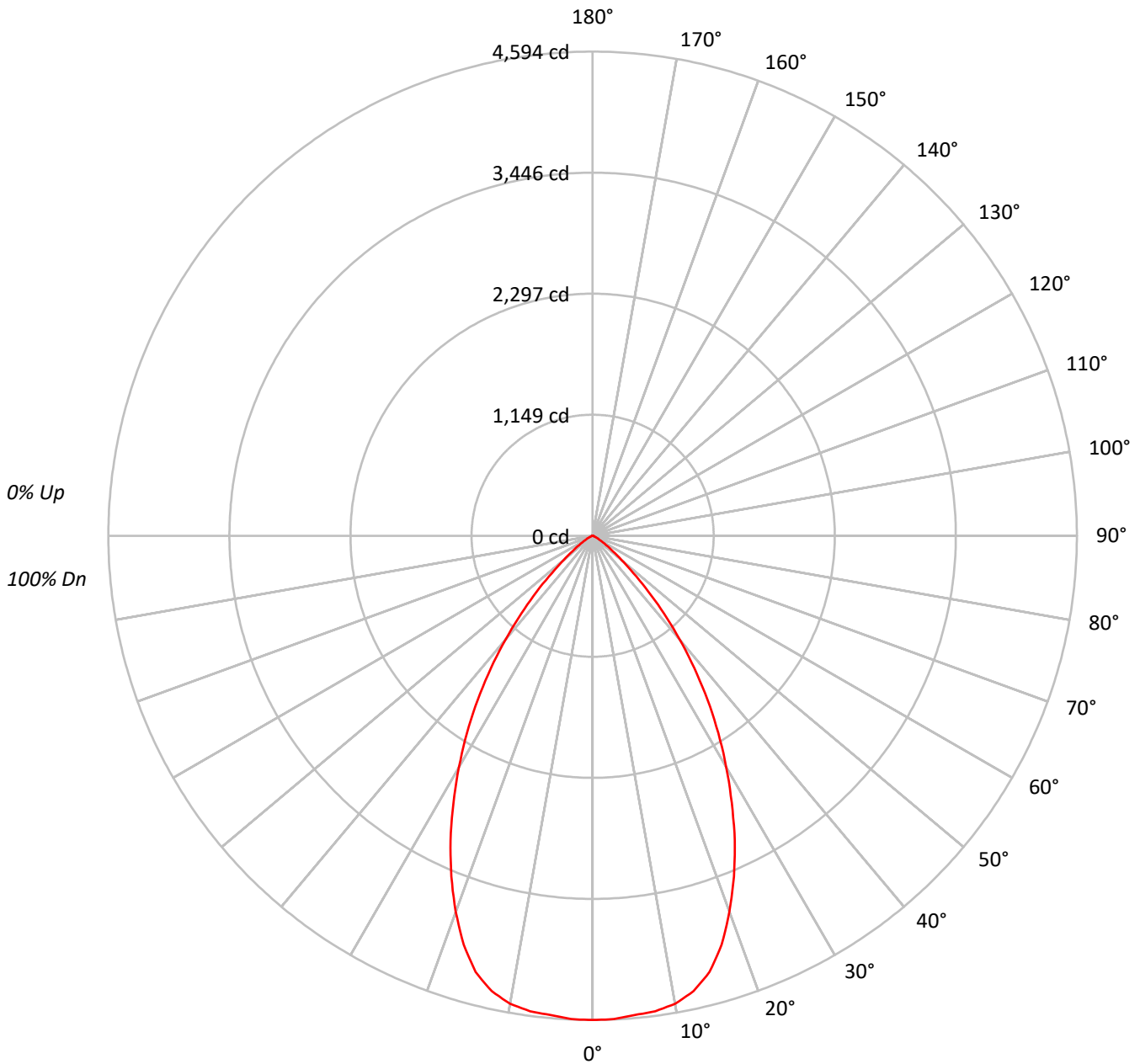
Lumens per Lamp: N/A  
Luminaire Lumens: 5059.5 lumens  
Efficiency: N/A  
Efficacy: 130.7 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96  
Luminous Opening: Circular (Dia: 0.48' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 38.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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



Downlight

TEST NUMBER: P793149  
CATALOG NUMBER: LER6D45BD010-EC6DR6540509050-6LBS1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P793149

CATALOG NUMBER: LER6D45BD010-EC6DR6540509050-6LBS1LI

**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	107	105	111	108	105	103	104	102	100	100	99	97	97	95	94	93				93															
2	107	102	97	94	105	100	96	92	97	93	90	94	91	88	91	89	87	85				85															
3	101	94	88	84	99	92	87	83	90	86	82	87	84	81	85	82	80	78				78															
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72				72															
5	90	81	74	70	88	80	74	69	78	73	69	76	72	68	75	71	68	66				66															
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61				61															
7	80	70	64	59	79	69	63	59	68	63	59	67	62	58	66	61	58	56				56															
8	76	66	59	55	75	65	59	55	64	58	54	63	58	54	62	57	54	52				52															
9	72	61	55	51	71	61	55	51	60	54	51	59	54	50	58	54	50	49				49															
10	68	58	52	47	67	57	51	47	57	51	47	56	51	47	55	50	47	46				46															

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	268302
5°	267620
10°	267394
15°	259149
20°	235923
25°	205594
30°	170998
35°	135488
40°	97786
45°	61781
50°	32201
55°	17117
60°	8994
65°	4947
70°	2083
75°	2279
80°	1581
85°	1340

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 61781 cd/sqm



TEST NUMBER: P793149

CATALOG NUMBER: LER6D45BD010-EC6DR6540509050-6LBS1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.4	8.6
10°-20°	1189.6	23.5
20°-30°	1454.2	28.7
30°-40°	1179.8	23.3
40°-50°	588.0	11.6
50°-60°	164.0	3.2
60°-70°	37.3	0.7
70°-80°	9.7	0.2
80°-90°	2.5	0.0
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°	3078.2	60.8
0°-40°	4258.1	84.2
0°-60°	5010.0	99.0
0°-90°	5059.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5059.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	4594	
5°	4565	434
15°	4286	1190
25°	3190	1454
35°	1900	1180
45°	748	588
55°	168	164
65°	36	37
75°	10	10
85°	2	2
90°	0	



TEST NUMBER: P793149

CATALOG NUMBER: LER6D45BD010-EC6DR6540509050-6LBS1LI

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	4593.9
2.5°	4590.5
5°	4564.8
7.5°	4550.0
10°	4508.8
12.5°	4425.1
15°	4286.0
17.5°	4068.7
20°	3795.9
22.5°	3501.6
25°	3190.4
27.5°	2857.6
30°	2535.6
32.5°	2217.6
35°	1900.3
37.5°	1583.7
40°	1282.6
42.5°	1000.5
45°	748.0
47.5°	521.2
50°	354.4
52.5°	244.4
55°	168.1
57.5°	113.4
60°	77.0
62.5°	53.3
65°	35.8
67.5°	18.2
70°	12.2
72.5°	11.5
75°	10.1
77.5°	6.8
80°	4.7
82.5°	3.4
85°	2.0
87.5°	1.4
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)