

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: P792643

Luminaire Tested: LER6D40BD010-EC6DR6540509030-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P792643  
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: LER6D40BD010-EC6DR6540509030-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 65° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

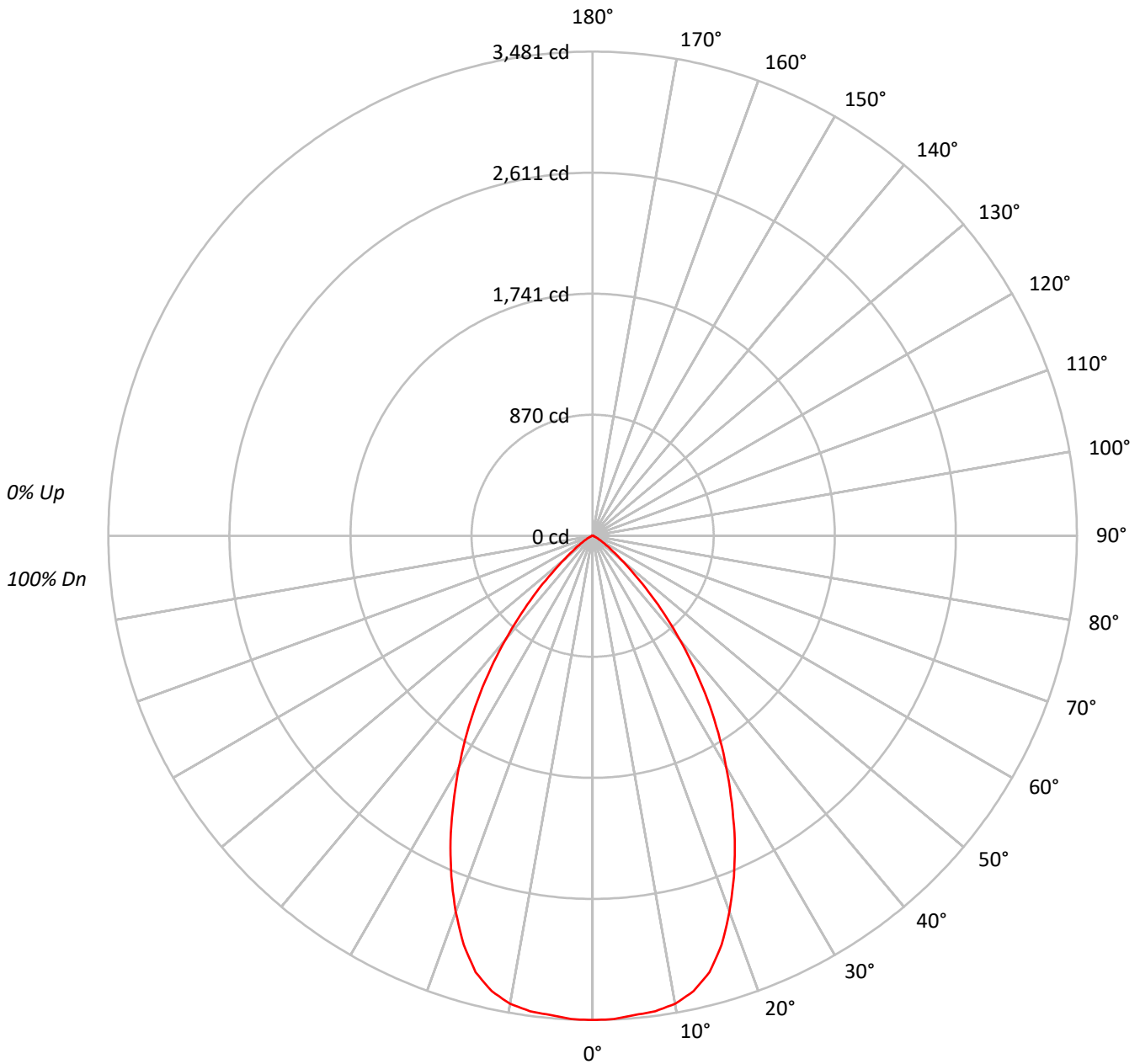
Lumens per Lamp: N/A  
Luminaire Lumens: 3833.8 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 0.95 / 0.95 / 0.96  
Luminous Opening: Circular (Dia: 0.48' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 35.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P792643  
CATALOG NUMBER: LER6D40BD010-EC6DR6540509030-6LBS1B

### Luminous Intensity Polar Plot





TEST NUMBER: P792643  
 CATALOG NUMBER: LER6D40BD010-EC6DR6540509030-6LBS1B

**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°	203304
5°	202791
10°	202615
15°	196369
20°	178768
25°	155787
30°	129571
35°	102669
40°	74098
45°	46815
50°	24405
55°	12972
60°	6810
65°	3745
70°	1571
75°	1738
80°	1211
85°	1005

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 46815 cd/sqm



TEST NUMBER: P792643

CATALOG NUMBER: LER6D40BD010-EC6DR6540509030-6LBS1B

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.2	8.6
10°-20°	901.4	23.5
20°-30°	1101.9	28.7
30°-40°	894.0	23.3
40°-50°	445.5	11.6
50°-60°	124.3	3.2
60°-70°	28.2	0.7
70°-80°	7.4	0.2
80°-90°	1.9	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°	2332.5	60.8
0°-40°	3226.5	84.2
0°-60°	3796.3	99.0
0°-90°	3833.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3833.8	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	3481	
5°	3459	329
15°	3248	901
25°	2418	1102
35°	1440	894
45°	567	446
55°	127	124
65°	27	28
75°	8	7
85°	2	2
90°	0	



TEST NUMBER: P792643

CATALOG NUMBER: LER6D40BD010-EC6DR6540509030-6LBS1B

**CANDELA DISTRIBUTION (FULL):**

	0°
0°	3481.0
2.5°	3478.4
5°	3459.0
7.5°	3447.7
10°	3416.5
12.5°	3353.1
15°	3247.7
17.5°	3083.0
20°	2876.3
22.5°	2653.3
25°	2417.5
27.5°	2165.3
30°	1921.3
32.5°	1680.4
35°	1440.0
37.5°	1200.0
40°	971.9
42.5°	758.1
45°	566.8
47.5°	394.9
50°	268.6
52.5°	185.2
55°	127.4
57.5°	85.9
60°	58.3
62.5°	40.4
65°	27.1
67.5°	13.8
70°	9.2
72.5°	8.7
75°	7.7
77.5°	5.1
80°	3.6
82.5°	2.6
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)