

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: P793293

Luminaire Tested: LER6D50D010-EC6DR3040509050-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793293  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER6D50D010-EC6DR3040509050-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6621.9 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

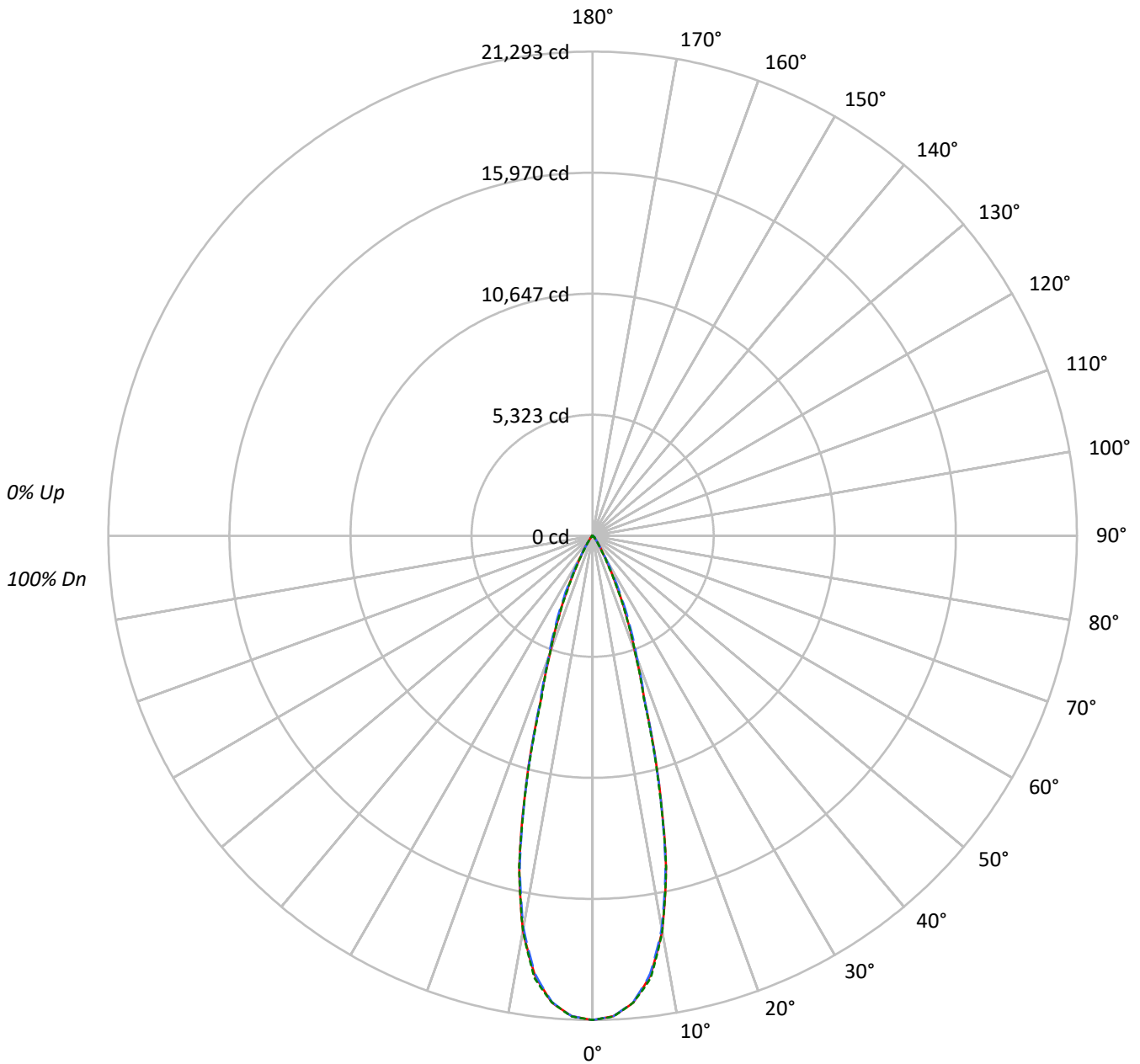
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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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																			
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

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

	0°	45°	90°
0°	1629816	1629816	1629816
5°	1583025	1581173	1583101
10°	1371140	1361472	1370814
15°	894596	889794	885325
20°	444846	461537	444244
25°	224079	252685	219493
30°	89719	97753	78167
35°	41610	39853	33406
40°	17966	19954	16927
45°	12676	15729	12784
50°	4358	11456	4608
55°	2509	4737	2656
60°	1760	2082	1760
65°	1141	1141	1141
70°	694	470	694
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 15729 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1872.4	28.3
10°-20°	3015.5	45.5
20°-30°	1303.1	19.7
30°-40°	297.0	4.5
40°-50°	102.0	1.5
50°-60°	24.9	0.4
60°-70°	6.5	0.1
70°-80°	0.7	0.0
80°-90°	0.0	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°	6190.9	93.5
0°-40°	6487.9	98.0
0°-60°	6614.8	99.9
0°-90°	6621.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6621.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21293	21293	21293	21293	21293	
5°	20603	20583	20579	20622	20604	1874
15°	11289	11153	11229	11192	11172	3023
25°	2653	2754	2992	2684	2599	1270
35°	445	455	426	423	358	302
45°	117	145	145	145	118	83
55°	19	20	36	21	20	18
65°	6	6	6	6	6	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	21292.7	21292.7	21292.7	21292.7	21292.7
2.5°	21151.5	21136.9	21145.2	21155.7	21159.9
5°	20602.7	20582.8	20578.6	20621.5	20603.7
7.5°	19495.6	19467.4	19424.5	19521.7	19612.7
10°	17641.1	17609.7	17516.7	17562.7	17636.9
12.5°	14903.2	14801.8	14799.7	14946.0	14926.2
15°	11289.2	11153.3	11228.6	11192.0	11172.2
17.5°	7591.7	7539.4	7639.8	7609.4	7478.8
20°	5461.2	5474.7	5666.1	5569.9	5453.8
22.5°	3985.1	4034.2	4261.0	4013.3	3922.3
25°	2653.2	2753.6	2991.9	2683.5	2598.9
27.5°	1631.9	1677.9	1919.3	1611.0	1565.0
30°	1015.1	992.1	1106.0	949.2	884.4
32.5°	665.9	636.6	673.2	604.2	552.0
35°	445.3	454.7	426.5	423.4	357.5
37.5°	278.1	319.9	282.3	301.1	230.0
40°	179.8	232.1	199.7	220.6	169.4
42.5°	147.4	178.8	164.1	174.6	150.5
45°	117.1	145.3	145.3	145.3	118.1
47.5°	64.8	97.2	124.4	99.3	69.0
50°	36.6	49.1	96.2	51.2	38.7
52.5°	25.1	28.2	65.9	29.3	26.1
55°	18.8	19.9	35.5	20.9	19.9
57.5°	14.6	15.7	18.8	15.7	14.6
60°	11.5	11.5	13.6	12.5	11.5
62.5°	8.4	8.4	9.4	8.4	8.4
65°	6.3	6.3	6.3	6.3	6.3
67.5°	3.1	4.2	4.2	4.2	4.2
70°	3.1	2.1	2.1	2.1	3.1
72.5°	2.1	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)