

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: P793285

Luminaire Tested: LER6D50D010-EC6DR3040509040-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P793285  
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-EC6DR3040509040-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6574.9 lumens  
Efficiency: N/A  
Efficacy: 139.9 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

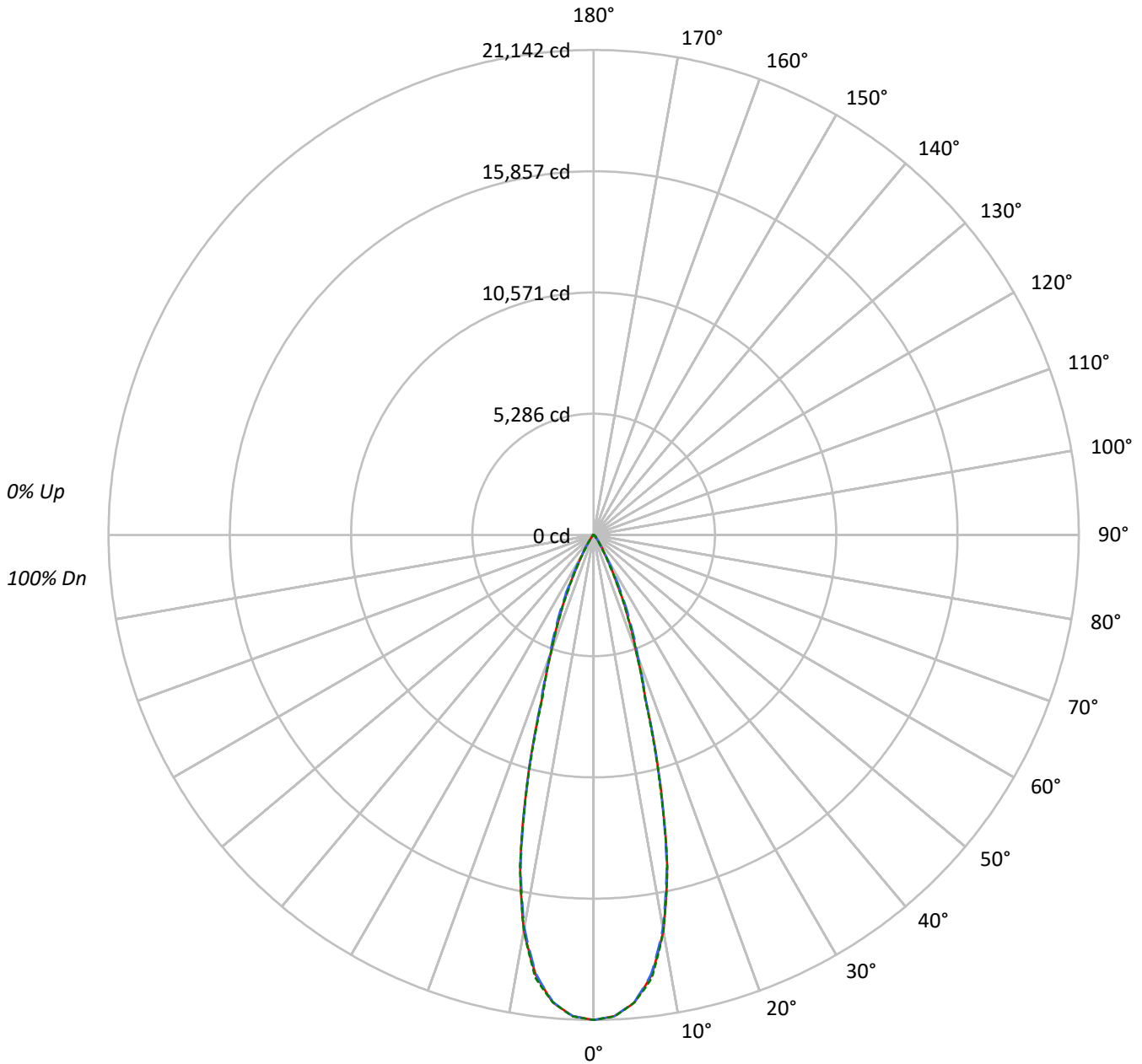
Input Watts (W): 47  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1618250	1618250	1618250
5°	1571799	1569962	1571876
10°	1361417	1351810	1361091
15°	888257	883486	879041
20°	441686	458262	441099
25°	222492	250894	217931
30°	89083	97064	77611
35°	41320	39573	33172
40°	17836	19814	16807
45°	12589	15620	12698
50°	4323	11372	4573
55°	2496	4711	2629
60°	1745	2067	1745
65°	1123	1123	1123
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: 15620 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1859.1	28.3
10°-20°	2994.1	45.5
20°-30°	1293.8	19.7
30°-40°	294.9	4.5
40°-50°	101.3	1.5
50°-60°	24.7	0.4
60°-70°	6.4	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°	6147.0	93.5
0°-40°	6441.9	98.0
0°-60°	6567.9	99.9
0°-90°	6574.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6574.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21142	21142	21142	21142	21142	
5°	20457	20437	20433	20475	20458	1861
15°	11209	11074	11149	11113	11093	3001
25°	2634	2734	2971	2664	2580	1261
35°	442	452	424	420	355	300
45°	116	144	144	144	117	83
55°	19	20	35	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°	21141.6	21141.6	21141.6	21141.6	21141.6
2.5°	21001.5	20987.0	20995.3	21005.7	21009.8
5°	20456.6	20436.8	20432.7	20475.3	20457.6
7.5°	19357.3	19329.3	19286.8	19383.3	19473.6
10°	17516.0	17484.8	17392.4	17438.1	17511.8
12.5°	14797.5	14696.8	14694.7	14840.0	14820.3
15°	11209.2	11074.2	11149.0	11112.6	11092.9
17.5°	7537.8	7485.9	7585.6	7555.5	7425.7
20°	5422.4	5435.9	5625.9	5530.4	5415.2
22.5°	3956.8	4005.6	4230.8	3984.8	3894.5
25°	2634.4	2734.0	2970.7	2664.5	2580.4
27.5°	1620.3	1666.0	1905.7	1599.5	1553.9
30°	1007.9	985.0	1098.2	942.5	878.1
32.5°	661.2	632.1	668.5	600.0	548.1
35°	442.2	451.5	423.5	420.4	355.0
37.5°	276.1	317.6	280.3	298.9	228.4
40°	178.5	230.4	198.3	219.0	168.2
42.5°	146.4	177.5	163.0	173.3	149.5
45°	116.3	144.3	144.3	144.3	117.3
47.5°	64.4	96.5	123.5	98.6	68.5
50°	36.3	48.8	95.5	50.9	38.4
52.5°	24.9	28.0	65.4	29.1	25.9
55°	18.7	19.7	35.3	20.8	19.7
57.5°	14.5	15.6	18.7	15.6	14.5
60°	11.4	11.4	13.5	12.5	11.4
62.5°	8.3	8.3	9.3	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2
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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