

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: P788957

Luminaire Tested: LER6D10D010-EC6DR300210IC9027-6LBS1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P788957  
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: LER6D10D010-EC6DR300210IC9027-6LBS1LI  
Description: 6 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1896.2 lumens  
Efficiency: N/A  
Efficacy: 162.1 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

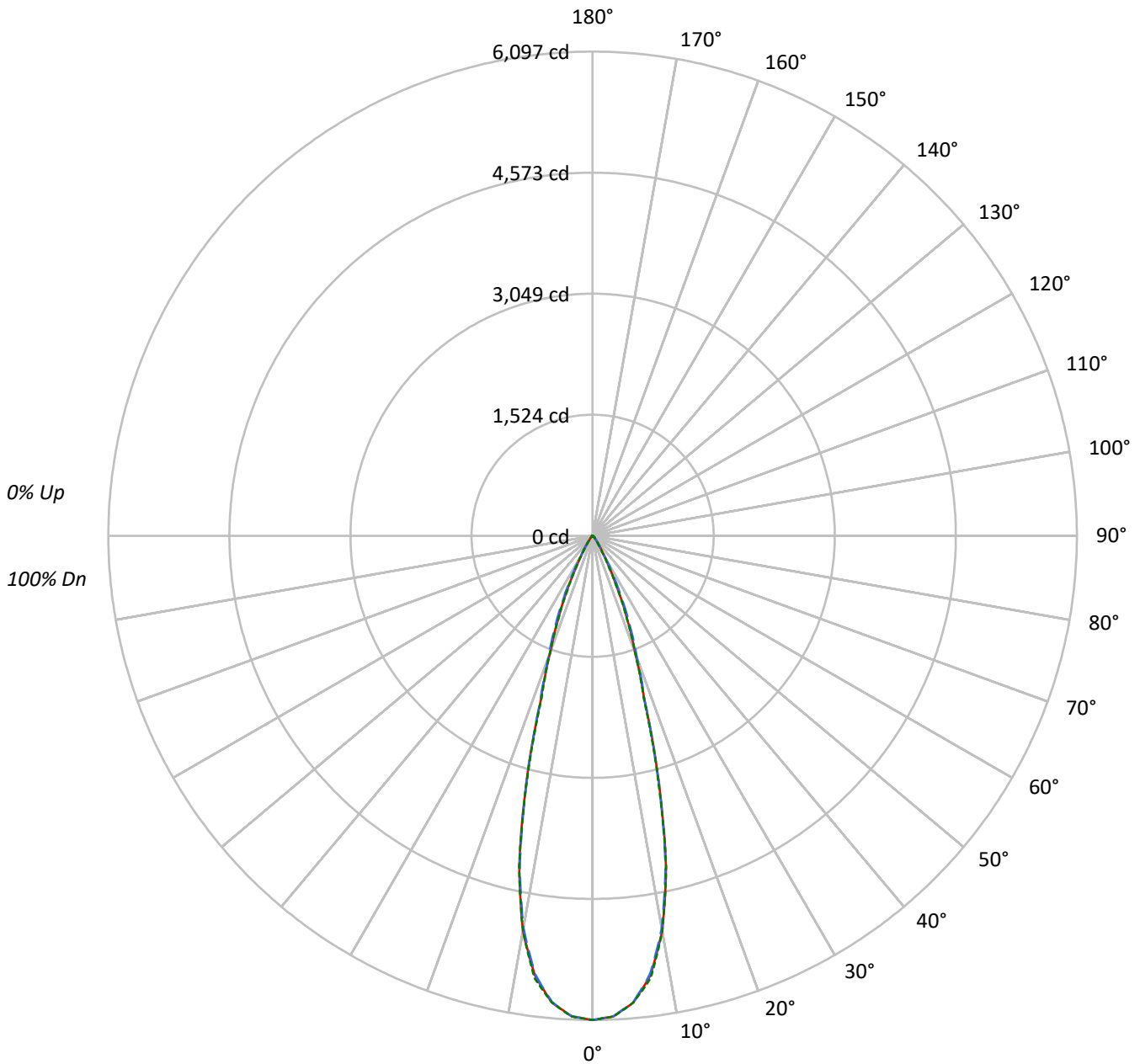
Input Watts (W): 11.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

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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°	466693	466693	466693
5°	453293	452763	453316
10°	392624	389849	392531
15°	256163	254792	253508
20°	127381	132162	127209
25°	64161	72354	62852
30°	25693	27991	22379
35°	11914	11409	9568
40°	5146	5715	4846
45°	3626	4503	3659
50°	1250	3275	1322
55°	721	1361	761
60°	505	597	505
65°	326	326	326
70°	201	134	201
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 4503 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	536.1	28.3
10°-20°	863.5	45.5
20°-30°	373.1	19.7
30°-40°	85.0	4.5
40°-50°	29.2	1.5
50°-60°	7.1	0.4
60°-70°	1.9	0.1
70°-80°	0.2	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°	1772.7	93.5
0°-40°	1857.8	98.0
0°-60°	1894.1	99.9
0°-90°	1896.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1896.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6097	6097	6097	6097	6097	
5°	5900	5894	5893	5905	5900	537
15°	3233	3194	3215	3205	3199	866
25°	760	788	857	768	744	364
35°	128	130	122	121	102	86
45°	34	42	42	42	34	24
55°	5	6	10	6	6	5
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	6097.1	6097.1	6097.1	6097.1	6097.1
2.5°	6056.7	6052.5	6054.9	6057.9	6059.1
5°	5899.5	5893.8	5892.6	5904.9	5899.8
7.5°	5582.5	5574.4	5562.2	5590.0	5616.0
10°	5051.5	5042.5	5015.8	5029.0	5050.3
12.5°	4267.5	4238.4	4237.8	4279.8	4274.1
15°	3232.6	3193.7	3215.3	3204.8	3199.1
17.5°	2173.9	2158.9	2187.6	2178.9	2141.5
20°	1563.8	1567.7	1622.5	1594.9	1561.7
22.5°	1141.1	1155.2	1220.1	1149.2	1123.1
25°	759.7	788.5	856.7	768.4	744.2
27.5°	467.3	480.5	549.6	461.3	448.1
30°	290.7	284.1	316.7	271.8	253.2
32.5°	190.7	182.3	192.8	173.0	158.1
35°	127.5	130.2	122.1	121.2	102.4
37.5°	79.6	91.6	80.8	86.2	65.9
40°	51.5	66.5	57.2	63.2	48.5
42.5°	42.2	51.2	47.0	50.0	43.1
45°	33.5	41.6	41.6	41.6	33.8
47.5°	18.6	27.8	35.6	28.4	19.8
50°	10.5	14.1	27.5	14.7	11.1
52.5°	7.2	8.1	18.9	8.4	7.5
55°	5.4	5.7	10.2	6.0	5.7
57.5°	4.2	4.5	5.4	4.5	4.2
60°	3.3	3.3	3.9	3.6	3.3
62.5°	2.4	2.4	2.7	2.4	2.4
65°	1.8	1.8	1.8	1.8	1.8
67.5°	0.9	1.2	1.2	1.2	1.2
70°	0.9	0.6	0.6	0.6	0.9
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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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