

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: P791223

Luminaire Tested: LER6D30D010-EC6DR1515309050-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P791223  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER6D30D010-EC6DR1515309050-6LBDDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3224.8 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

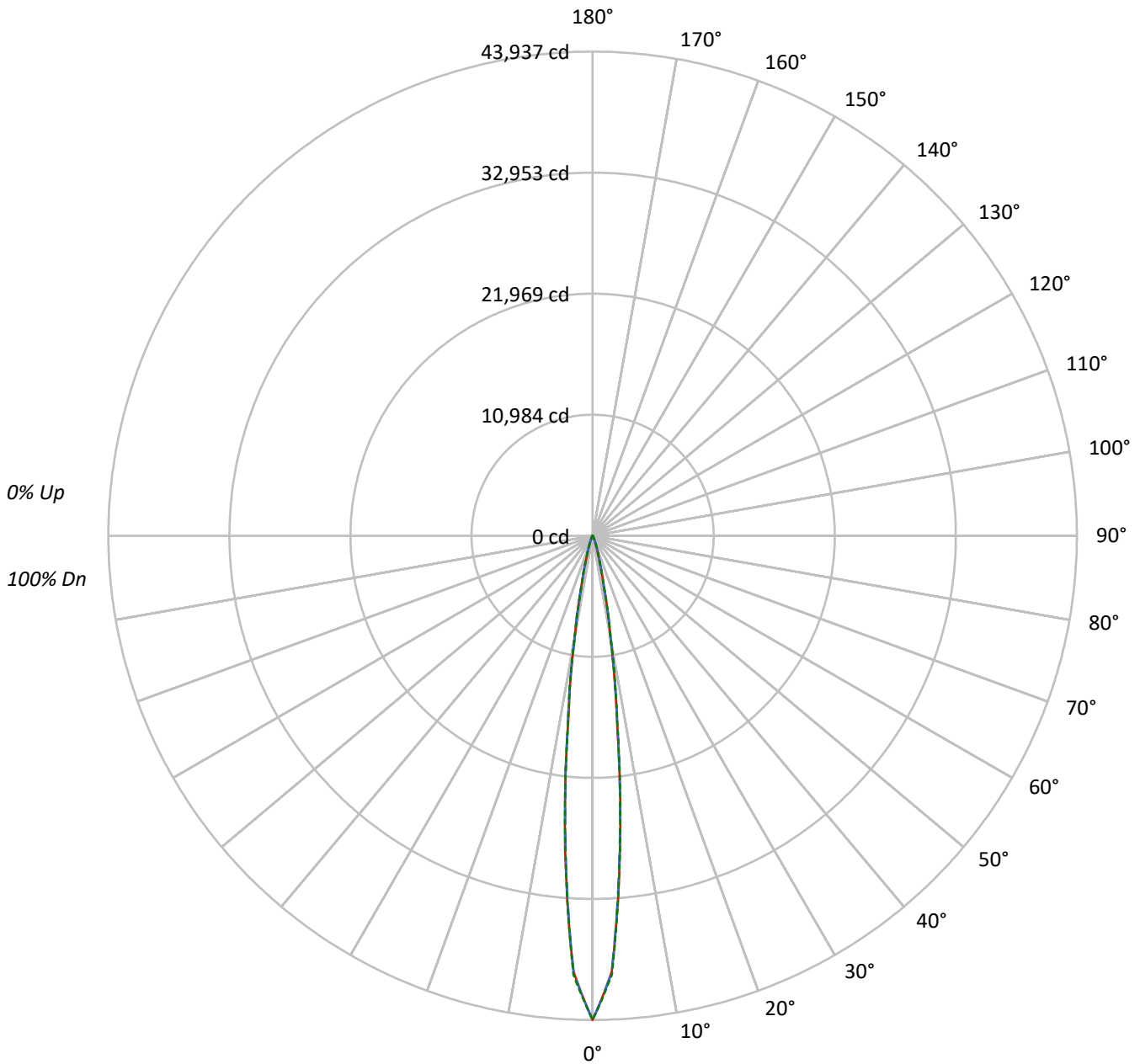
Input Watts (W): 29  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

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

	0°	45°	90°
0°	4943744	4943744	4943744
5°	2905184	2867561	2890245
10°	867061	873135	886497
15°	215674	219869	213086
20°	64525	74729	65900
25°	22747	28979	23035
30°	8357	11000	8499
35°	4190	4728	4052
40°	2642	2904	2642
45°	1953	2086	1953
50°	1551	1551	1551
55°	1295	1295	1295
60°	1046	1046	1046
65°	799	799	799
70°	680	680	680
75°	423	423	559
80°	292	292	292
85°	158	158	158

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 2086 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2091.5	64.9
10°-20°	860.3	26.7
20°-30°	170.9	5.3
30°-40°	42.7	1.3
40°-50°	22.4	0.7
50°-60°	16.6	0.5
60°-70°	11.8	0.4
70°-80°	6.7	0.2
80°-90°	2.0	0.1
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°	3122.6	96.8
0°-40°	3165.3	98.2
0°-60°	3204.3	99.4
0°-90°	3224.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3224.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	43937	43937	43937	43937	43937	
5°	28586	28292	28216	28411	28439	2088
15°	2483	2530	2531	2487	2453	851
25°	292	331	372	329	296	153
35°	58	61	65	61	56	39
45°	28	28	30	28	28	22
55°	19	19	19	19	19	17
65°	11	11	11	11	11	12
75°	6	6	6	6	7	7
85°	2	2	2	2	2	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	43936.6	43936.6	43936.6	43936.6	43936.6
2.5°	39632.6	39666.1	39679.1	39718.2	39863.3
5°	28586.2	28292.3	28216.0	28411.3	28439.2
7.5°	16933.3	16992.8	17210.5	17258.8	17084.0
10°	9292.5	9368.8	9357.6	9424.6	9500.8
12.5°	4752.3	4692.7	4674.1	4750.4	4644.4
15°	2483.1	2529.6	2531.4	2486.8	2453.3
17.5°	1335.5	1389.4	1478.7	1406.2	1294.6
20°	788.6	837.0	913.3	853.7	805.4
22.5°	487.3	526.4	580.3	533.8	494.8
25°	292.0	331.1	372.0	329.2	295.7
27.5°	173.0	206.5	232.5	204.6	171.1
30°	111.6	130.2	146.9	128.3	113.5
32.5°	78.1	85.6	93.0	85.6	78.1
35°	57.7	61.4	65.1	61.4	55.8
37.5°	44.6	48.4	50.2	46.5	42.8
40°	37.2	39.1	40.9	39.1	37.2
42.5°	31.6	33.5	33.5	33.5	31.6
45°	27.9	27.9	29.8	27.9	27.9
47.5°	24.2	24.2	26.0	24.2	24.2
50°	22.3	22.3	22.3	22.3	22.3
52.5°	20.5	20.5	20.5	20.5	20.5
55°	18.6	18.6	18.6	18.6	18.6
57.5°	16.7	16.7	16.7	16.7	16.7
60°	14.9	14.9	14.9	14.9	14.9
62.5°	13.0	13.0	13.0	13.0	13.0
65°	11.2	11.2	11.2	11.2	11.2
67.5°	11.2	11.2	11.2	11.2	11.2
70°	9.3	9.3	9.3	9.3	9.3
72.5°	7.4	7.4	7.4	7.4	7.4
75°	5.6	5.6	5.6	5.6	7.4
77.5°	5.6	5.6	5.6	5.6	5.6
80°	3.7	3.7	3.7	3.7	3.7
82.5°	3.7	3.7	3.7	3.7	3.7
85°	1.9	1.9	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

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Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)