

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: P790035

Luminaire Tested: LER6D20D010-EC6DR1515309024-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790035  
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: LER6D20D010-EC6DR1515309024-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1669.4 lumens  
Efficiency: N/A  
Efficacy: 72.3 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

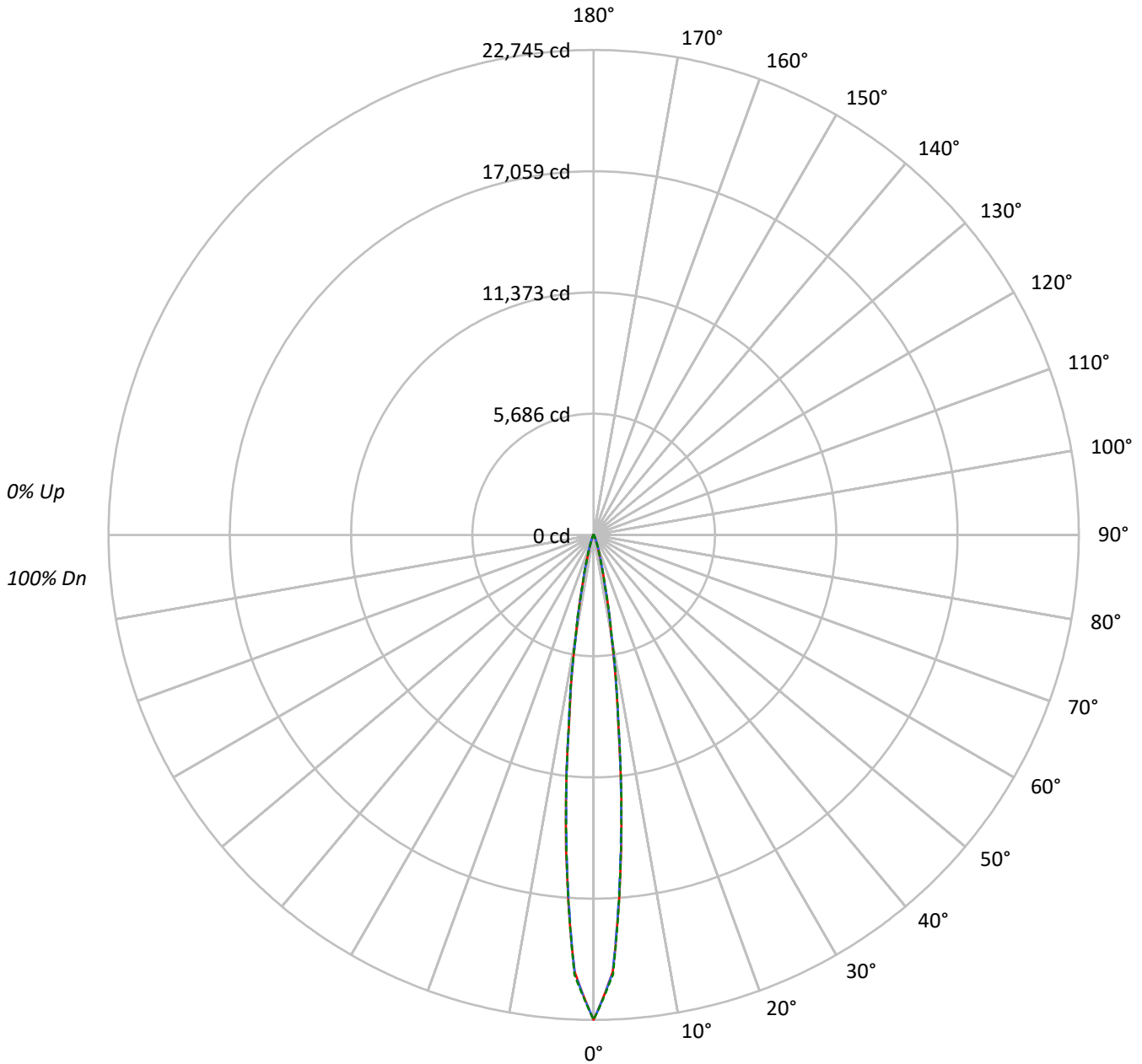
Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	2559232	2559232	2559232
5°	1503925	1484453	1496191
10°	448856	452001	458915
15°	111646	113826	110308
20°	33408	38686	34112
25°	11779	15004	11927
30°	4328	5698	4396
35°	2164	2447	2099
40°	1371	1506	1371
45°	1008	1078	1008
50°	807	807	807
55°	668	668	668
60°	541	541	541
65°	414	414	414
70°	351	351	351
75°	219	219	295
80°	150	150	150
85°	83	83	83

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1078 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1082.7	64.9
10°-20°	445.3	26.7
20°-30°	88.5	5.3
30°-40°	22.1	1.3
40°-50°	11.6	0.7
50°-60°	8.6	0.5
60°-70°	6.1	0.4
70°-80°	3.5	0.2
80°-90°	1.0	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°	1616.5	96.8
0°-40°	1638.6	98.2
0°-60°	1658.8	99.4
0°-90°	1669.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1669.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22745	22745	22745	22745	22745	
5°	14798	14646	14607	14708	14722	1081
15°	1285	1310	1310	1287	1270	441
25°	151	171	193	170	153	79
35°	30	32	34	32	29	20
45°	14	14	15	14	14	11
55°	10	10	10	10	10	9
65°	6	6	6	6	6	6
75°	3	3	3	3	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22744.7	22744.7	22744.7	22744.7	22744.7
2.5°	20516.6	20534.0	20540.7	20560.9	20636.0
5°	14798.2	14646.1	14606.6	14707.7	14722.1
7.5°	8765.9	8796.7	8909.3	8934.4	8843.9
10°	4810.5	4849.9	4844.2	4878.8	4918.3
12.5°	2460.1	2429.3	2419.7	2459.1	2404.3
15°	1285.4	1309.5	1310.5	1287.3	1270.0
17.5°	691.3	719.3	765.5	727.9	670.2
20°	408.3	433.3	472.8	442.0	416.9
22.5°	252.3	272.5	300.4	276.3	256.1
25°	151.2	171.4	192.6	170.4	153.1
27.5°	89.5	106.9	120.4	105.9	88.6
30°	57.8	67.4	76.1	66.4	58.7
32.5°	40.4	44.3	48.1	44.3	40.4
35°	29.8	31.8	33.7	31.8	28.9
37.5°	23.1	25.0	26.0	24.1	22.1
40°	19.3	20.2	21.2	20.2	19.3
42.5°	16.4	17.3	17.3	17.3	16.4
45°	14.4	14.4	15.4	14.4	14.4
47.5°	12.5	12.5	13.5	12.5	12.5
50°	11.6	11.6	11.6	11.6	11.6
52.5°	10.6	10.6	10.6	10.6	10.6
55°	9.6	9.6	9.6	9.6	9.6
57.5°	8.7	8.7	8.7	8.7	8.7
60°	7.7	7.7	7.7	7.7	7.7
62.5°	6.7	6.7	6.7	6.7	6.7
65°	5.8	5.8	5.8	5.8	5.8
67.5°	5.8	5.8	5.8	5.8	5.8
70°	4.8	4.8	4.8	4.8	4.8
72.5°	3.9	3.9	3.9	3.9	3.9
75°	2.9	2.9	2.9	2.9	3.9
77.5°	2.9	2.9	2.9	2.9	2.9
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	1.0	1.0	1.0	1.0	1.0
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)