

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: P790059

Luminaire Tested: LER6D20D010-EC6DR1515309035-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790059  
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-EC6DR1515309035-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2020.0 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

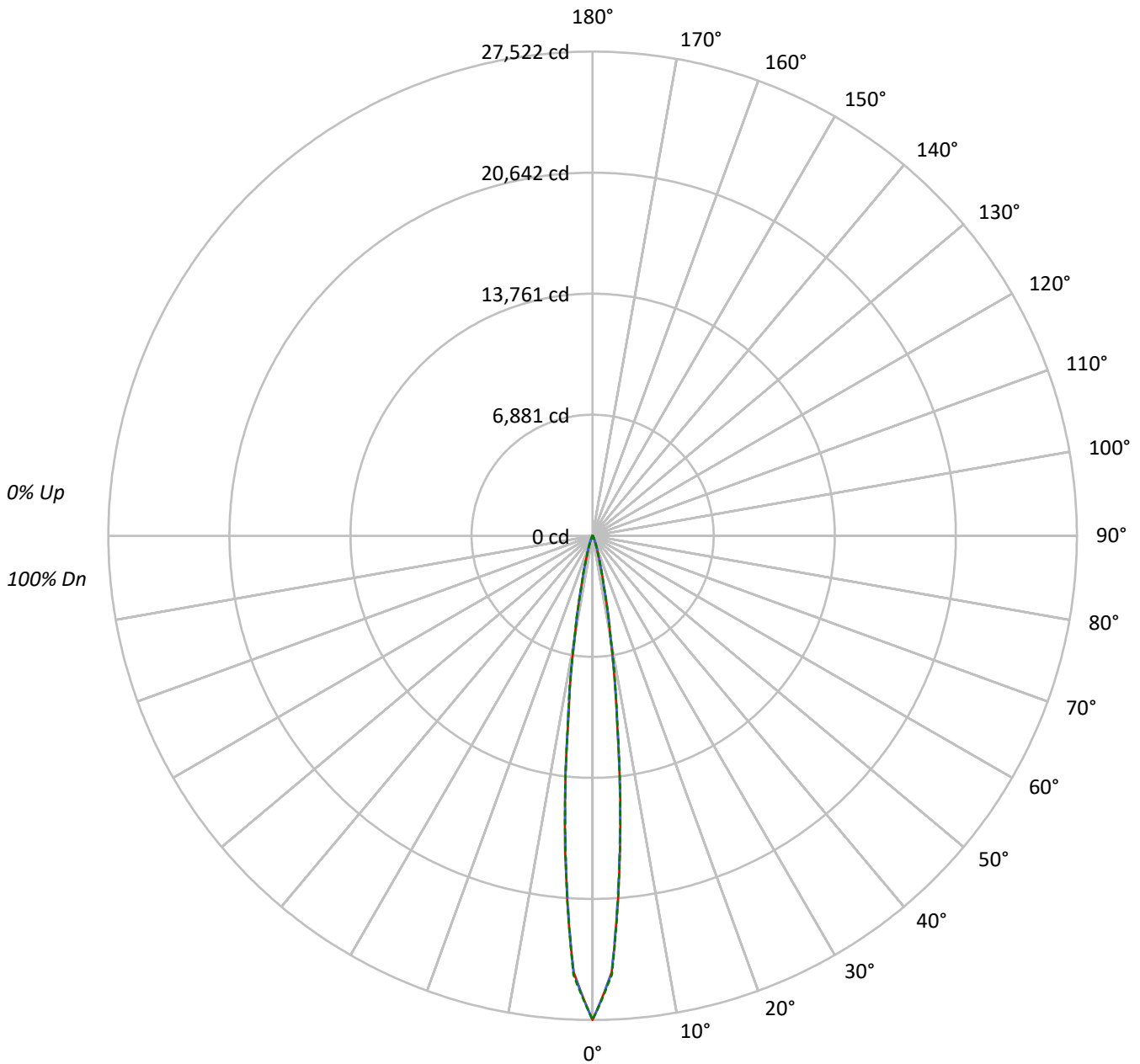


Downlight

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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

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

	0°	45°	90°
0°	3096763	3096763	3096763
5°	1819808	1796240	1810448
10°	543125	546932	555301
15°	135097	137729	133482
20°	40420	46811	41280
25°	14248	18151	14435
30°	5234	6889	5324
35°	2622	2963	2542
40°	1655	1818	1655
45°	1225	1302	1225
50°	974	974	974
55°	814	814	814
60°	653	653	653
65°	500	500	500
70°	424	424	424
75°	265	265	355
80°	181	181	181
85°	100	100	100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1302 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1310.1	64.9
10°-20°	538.9	26.7
20°-30°	107.0	5.3
30°-40°	26.7	1.3
40°-50°	14.0	0.7
50°-60°	10.4	0.5
60°-70°	7.4	0.4
70°-80°	4.2	0.2
80°-90°	1.3	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°	1956.0	96.8
0°-40°	1982.7	98.2
0°-60°	2007.2	99.4
0°-90°	2020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2020.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27522	27522	27522	27522	27522	
5°	17906	17722	17674	17797	17814	1308
15°	1555	1584	1586	1558	1537	533
25°	183	207	233	206	185	96
35°	36	38	41	38	35	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	10
65°	7	7	7	7	7	7
75°	4	4	4	4	5	4
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°	27521.9	27521.9	27521.9	27521.9	27521.9
2.5°	24825.9	24846.9	24855.0	24879.5	24970.4
5°	17906.4	17722.3	17674.5	17796.9	17814.3
7.5°	10607.0	10644.3	10780.6	10810.9	10701.4
10°	5820.8	5868.6	5861.6	5903.5	5951.3
12.5°	2976.8	2939.5	2927.9	2975.7	2909.2
15°	1555.4	1584.5	1585.7	1557.7	1536.8
17.5°	836.5	870.3	926.3	880.8	810.9
20°	494.0	524.3	572.1	534.8	504.5
22.5°	305.3	329.7	363.5	334.4	309.9
25°	182.9	207.4	233.0	206.2	185.3
27.5°	108.4	129.3	145.6	128.2	107.2
30°	69.9	81.6	92.0	80.4	71.1
32.5°	48.9	53.6	58.3	53.6	48.9
35°	36.1	38.4	40.8	38.4	35.0
37.5°	28.0	30.3	31.5	29.1	26.8
40°	23.3	24.5	25.6	24.5	23.3
42.5°	19.8	21.0	21.0	21.0	19.8
45°	17.5	17.5	18.6	17.5	17.5
47.5°	15.1	15.1	16.3	15.1	15.1
50°	14.0	14.0	14.0	14.0	14.0
52.5°	12.8	12.8	12.8	12.8	12.8
55°	11.7	11.7	11.7	11.7	11.7
57.5°	10.5	10.5	10.5	10.5	10.5
60°	9.3	9.3	9.3	9.3	9.3
62.5°	8.2	8.2	8.2	8.2	8.2
65°	7.0	7.0	7.0	7.0	7.0
67.5°	7.0	7.0	7.0	7.0	7.0
70°	5.8	5.8	5.8	5.8	5.8
72.5°	4.7	4.7	4.7	4.7	4.7
75°	3.5	3.5	3.5	3.5	4.7
77.5°	3.5	3.5	3.5	3.5	3.5
80°	2.3	2.3	2.3	2.3	2.3
82.5°	2.3	2.3	2.3	2.3	2.3
85°	1.2	1.2	1.2	1.2	1.2
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)