

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: P790078

Luminaire Tested: LER6D20D010-EC6DR1515309050-6LBS1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790078  
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-EC6DR1515309050-6LBS1MW  
Description: 6 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2076.4 lumens  
Efficiency: N/A  
Efficacy: 89.9 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

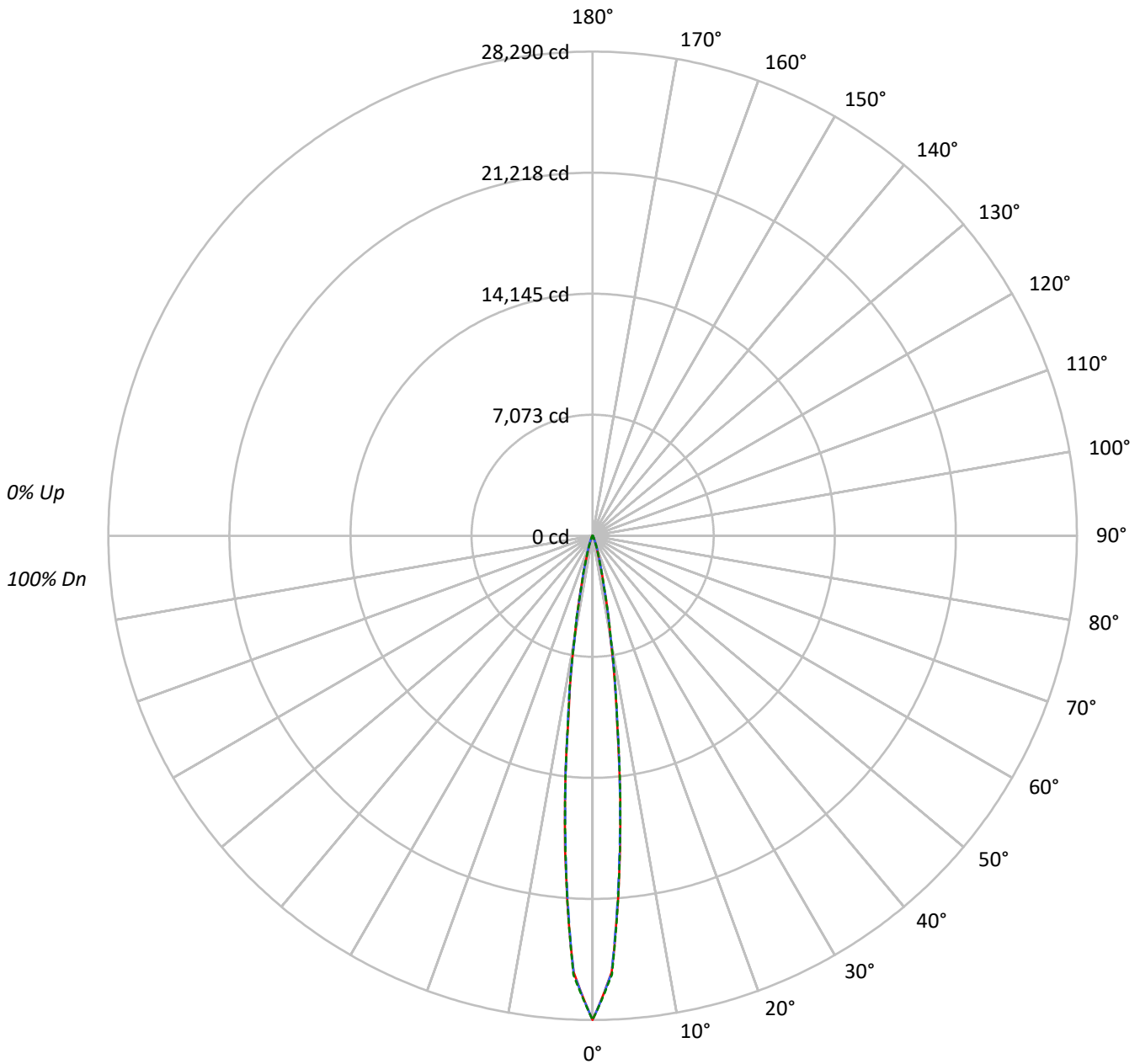


Downlight

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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	87	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°	3183212	3183212	3183212
5°	1870612	1846384	1860988
10°	558287	562197	570809
15°	138867	141577	137208
20°	41550	48112	42433
25°	14645	18657	14832
30°	5384	7084	5474
35°	2694	3043	2607
40°	1704	1868	1704
45°	1260	1344	1260
50°	1001	1001	1001
55°	835	835	835
60°	674	674	674
65°	514	514	514
70°	439	439	439
75°	272	272	363
80°	189	189	189
85°	100	100	100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1344 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1346.7	64.9
10°-20°	553.9	26.7
20°-30°	110.0	5.3
30°-40°	27.5	1.3
40°-50°	14.5	0.7
50°-60°	10.7	0.5
60°-70°	7.6	0.4
70°-80°	4.3	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°	2010.6	96.8
0°-40°	2038.1	98.2
0°-60°	2063.3	99.4
0°-90°	2076.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2076.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28290	28290	28290	28290	28290	
5°	18406	18217	18168	18294	18312	1344
15°	1599	1629	1630	1601	1580	548
25°	188	213	240	212	190	99
35°	37	40	42	40	36	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
65°	7	7	7	7	7	8
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°	28290.2	28290.2	28290.2	28290.2	28290.2
2.5°	25518.9	25540.5	25548.9	25574.0	25667.4
5°	18406.3	18217.0	18167.9	18293.7	18311.6
7.5°	10903.2	10941.5	11081.6	11112.7	11000.2
10°	5983.3	6032.4	6025.2	6068.4	6117.5
12.5°	3059.9	3021.6	3009.6	3058.7	2990.5
15°	1598.8	1628.8	1630.0	1601.2	1579.7
17.5°	859.9	894.6	952.1	905.4	833.5
20°	507.8	538.9	588.0	549.7	518.6
22.5°	313.8	338.9	373.7	343.7	318.6
25°	188.0	213.2	239.5	212.0	190.4
27.5°	111.4	132.9	149.7	131.7	110.2
30°	71.9	83.8	94.6	82.6	73.1
32.5°	50.3	55.1	59.9	55.1	50.3
35°	37.1	39.5	41.9	39.5	35.9
37.5°	28.7	31.1	32.3	29.9	27.5
40°	24.0	25.2	26.3	25.2	24.0
42.5°	20.4	21.6	21.6	21.6	20.4
45°	18.0	18.0	19.2	18.0	18.0
47.5°	15.6	15.6	16.8	15.6	15.6
50°	14.4	14.4	14.4	14.4	14.4
52.5°	13.2	13.2	13.2	13.2	13.2
55°	12.0	12.0	12.0	12.0	12.0
57.5°	10.8	10.8	10.8	10.8	10.8
60°	9.6	9.6	9.6	9.6	9.6
62.5°	8.4	8.4	8.4	8.4	8.4
65°	7.2	7.2	7.2	7.2	7.2
67.5°	7.2	7.2	7.2	7.2	7.2
70°	6.0	6.0	6.0	6.0	6.0
72.5°	4.8	4.8	4.8	4.8	4.8
75°	3.6	3.6	3.6	3.6	4.8
77.5°	3.6	3.6	3.6	3.6	3.6
80°	2.4	2.4	2.4	2.4	2.4
82.5°	2.4	2.4	2.4	2.4	2.4
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)