

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: P790031

Luminaire Tested: LER6D20D010-EC6DR1515309024-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790031  
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-EC6DR1515309024-6LBDDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF 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: 1579.1 lumens  
Efficiency: N/A  
Efficacy: 68.4 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

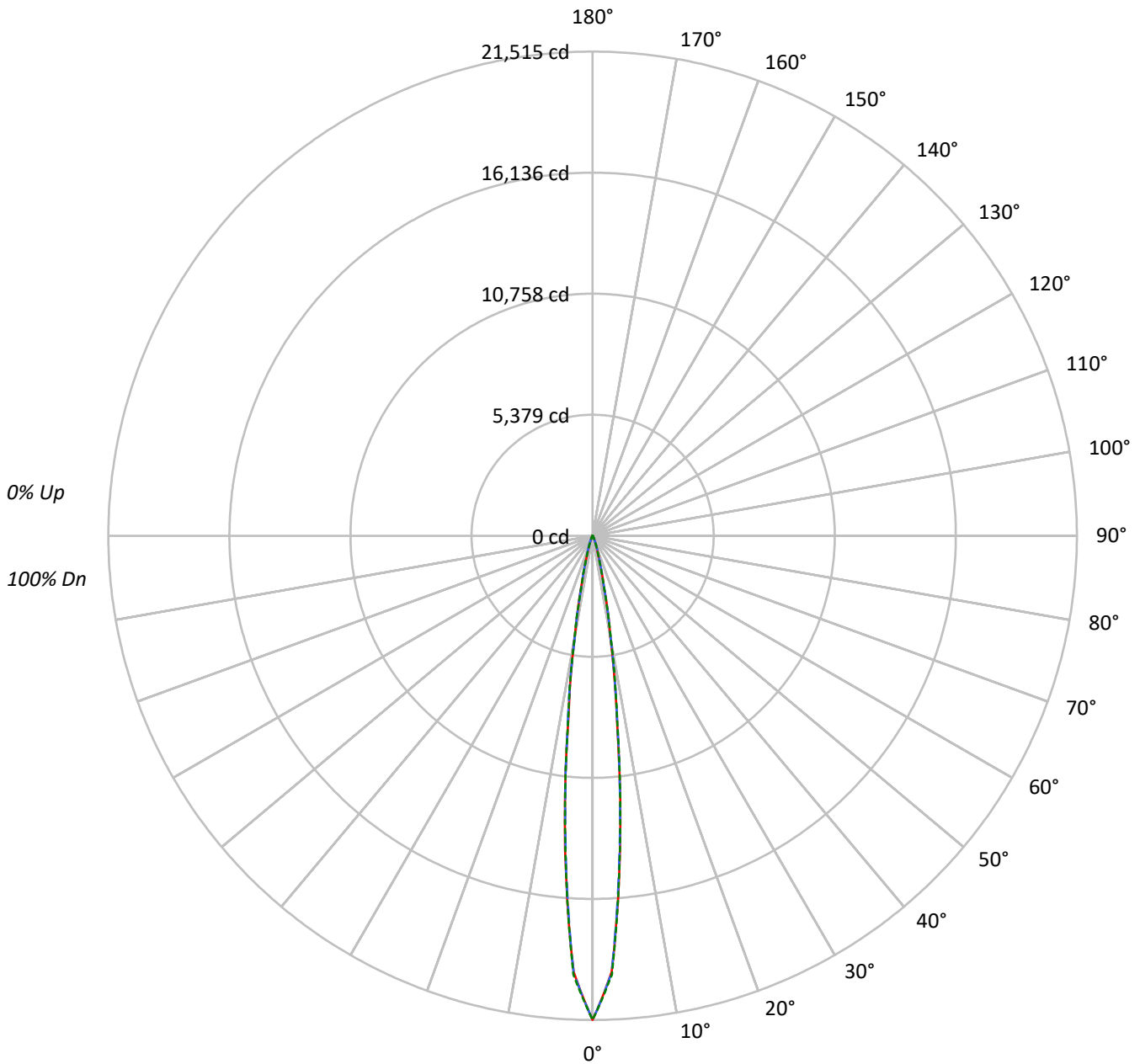


Downlight

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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°	2420822	2420822	2420822
5°	1422591	1404166	1415274
10°	424578	427554	434095
15°	105609	107668	104341
20°	31600	36591	32271
25°	11140	14194	11280
30°	4089	5391	4163
35°	2048	2317	1983
40°	1292	1420	1292
45°	959	1022	959
50°	758	758	758
55°	633	633	633
60°	513	513	513
65°	393	393	393
70°	336	336	336
75°	204	204	272
80°	142	142	142
85°	75	75	75

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1022 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1024.1	64.9
10°-20°	421.3	26.7
20°-30°	83.7	5.3
30°-40°	20.9	1.3
40°-50°	11.0	0.7
50°-60°	8.1	0.5
60°-70°	5.8	0.4
70°-80°	3.2	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°	1529.1	96.8
0°-40°	1550.0	98.2
0°-60°	1569.1	99.4
0°-90°	1579.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1579.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21515	21515	21515	21515	21515	
5°	13998	13854	13817	13912	13926	1022
15°	1216	1239	1240	1218	1201	417
25°	143	162	182	161	145	75
35°	28	30	32	30	27	19
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
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°	21514.6	21514.6	21514.6	21514.6	21514.6
2.5°	19407.0	19423.4	19429.8	19448.9	19520.0
5°	13997.9	13854.0	13816.6	13912.3	13925.9
7.5°	8291.8	8320.9	8427.5	8451.2	8365.6
10°	4550.3	4587.6	4582.2	4615.0	4652.3
12.5°	2327.1	2297.9	2288.8	2326.1	2274.2
15°	1215.9	1238.7	1239.6	1217.7	1201.3
17.5°	653.9	680.4	724.1	688.6	633.9
20°	386.2	409.9	447.2	418.1	394.4
22.5°	238.6	257.8	284.2	261.4	242.3
25°	143.0	162.1	182.2	161.2	144.8
27.5°	84.7	101.1	113.8	100.2	83.8
30°	54.6	63.8	72.0	62.8	55.6
32.5°	38.3	41.9	45.5	41.9	38.3
35°	28.2	30.1	31.9	30.1	27.3
37.5°	21.9	23.7	24.6	22.8	20.9
40°	18.2	19.1	20.0	19.1	18.2
42.5°	15.5	16.4	16.4	16.4	15.5
45°	13.7	13.7	14.6	13.7	13.7
47.5°	11.8	11.8	12.8	11.8	11.8
50°	10.9	10.9	10.9	10.9	10.9
52.5°	10.0	10.0	10.0	10.0	10.0
55°	9.1	9.1	9.1	9.1	9.1
57.5°	8.2	8.2	8.2	8.2	8.2
60°	7.3	7.3	7.3	7.3	7.3
62.5°	6.4	6.4	6.4	6.4	6.4
65°	5.5	5.5	5.5	5.5	5.5
67.5°	5.5	5.5	5.5	5.5	5.5
70°	4.6	4.6	4.6	4.6	4.6
72.5°	3.6	3.6	3.6	3.6	3.6
75°	2.7	2.7	2.7	2.7	3.6
77.5°	2.7	2.7	2.7	2.7	2.7
80°	1.8	1.8	1.8	1.8	1.8
82.5°	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9
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)