

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: P790056

Luminaire Tested: LER6D20D010-EC6DR1515309035-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790056  
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-EC6DR1515309035-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2044.7 lumens  
Efficiency: N/A  
Efficacy: 88.5 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

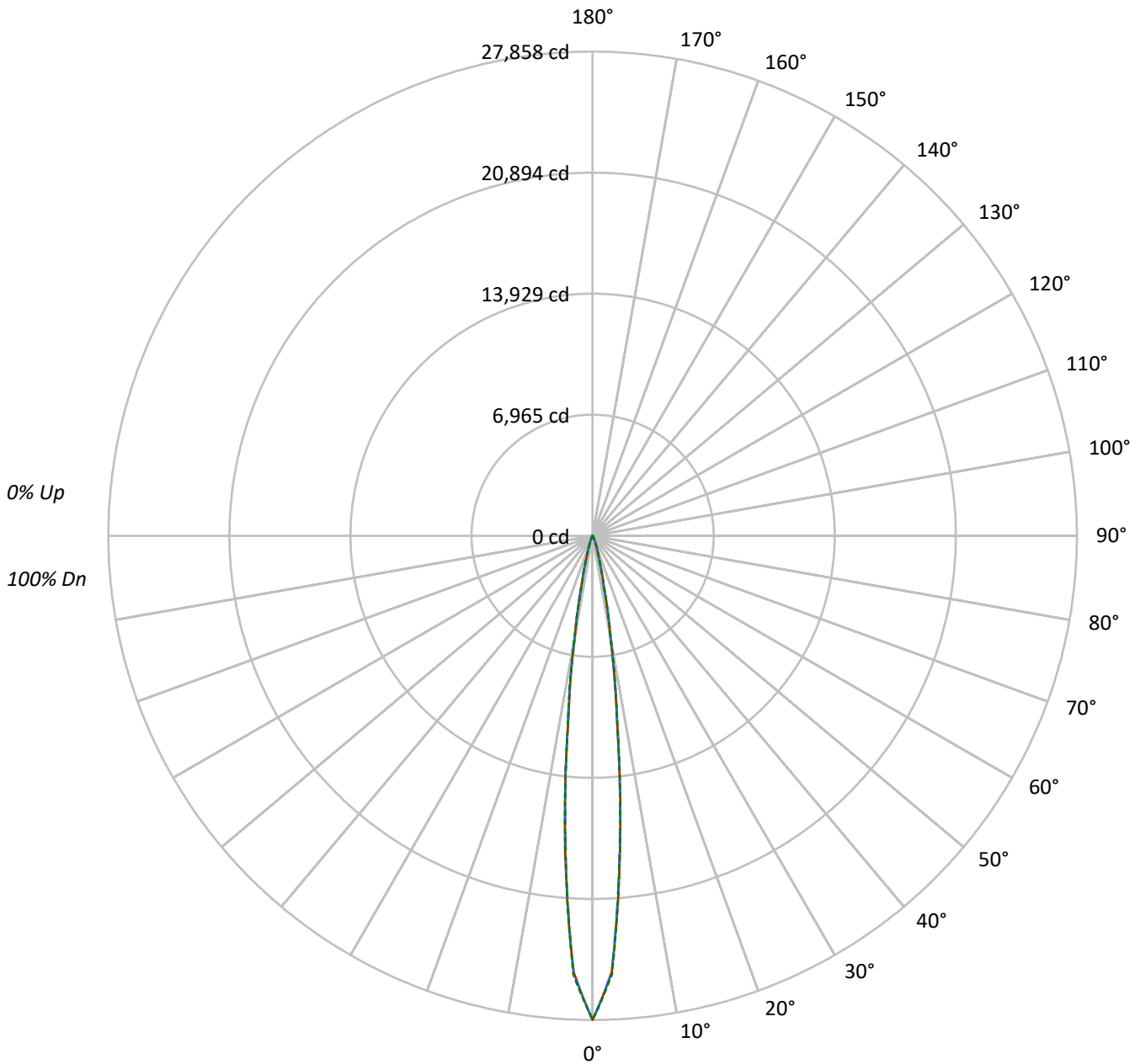


Downlight

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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°	3134547	3134547	3134547
5°	1842004	1818151	1832542
10°	549750	553603	562076
15°	136747	139405	135106
20°	40911	47375	41779
25°	14427	18377	14606
30°	5302	6979	5384
35°	2658	2999	2571
40°	1676	1839	1676
45°	1239	1323	1239
50°	987	987	987
55°	821	821	821
60°	660	660	660
65°	507	507	507
70°	432	432	432
75°	265	265	355
80°	189	189	189
85°	100	100	100

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1323 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1326.1	64.9
10°-20°	545.5	26.7
20°-30°	108.3	5.3
30°-40°	27.0	1.3
40°-50°	14.2	0.7
50°-60°	10.5	0.5
60°-70°	7.5	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°	1979.9	96.8
0°-40°	2006.9	98.2
0°-60°	2031.7	99.4
0°-90°	2044.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2044.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27858	27858	27858	27858	27858	
5°	18125	17938	17890	18014	18032	1324
15°	1574	1604	1605	1577	1556	540
25°	185	210	236	209	188	97
35°	37	39	41	39	35	25
45°	18	18	19	18	18	14
55°	12	12	12	12	12	11
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°	27857.7	27857.7	27857.7	27857.7	27857.7
2.5°	25128.8	25150.0	25158.2	25183.0	25275.0
5°	18124.8	17938.5	17890.1	18014.0	18031.7
7.5°	10736.4	10774.2	10912.2	10942.8	10832.0
10°	5891.8	5940.2	5933.1	5975.6	6023.9
12.5°	3013.1	2975.4	2963.6	3012.0	2944.7
15°	1574.4	1603.9	1605.0	1576.7	1555.5
17.5°	846.7	880.9	937.6	891.6	820.8
20°	500.0	530.7	579.0	541.3	510.6
22.5°	309.0	333.7	367.9	338.5	313.7
25°	185.2	209.9	235.9	208.7	187.5
27.5°	109.7	130.9	147.4	129.7	108.5
30°	70.8	82.6	93.2	81.4	71.9
32.5°	49.5	54.2	59.0	54.2	49.5
35°	36.6	38.9	41.3	38.9	35.4
37.5°	28.3	30.7	31.8	29.5	27.1
40°	23.6	24.8	25.9	24.8	23.6
42.5°	20.0	21.2	21.2	21.2	20.0
45°	17.7	17.7	18.9	17.7	17.7
47.5°	15.3	15.3	16.5	15.3	15.3
50°	14.2	14.2	14.2	14.2	14.2
52.5°	13.0	13.0	13.0	13.0	13.0
55°	11.8	11.8	11.8	11.8	11.8
57.5°	10.6	10.6	10.6	10.6	10.6
60°	9.4	9.4	9.4	9.4	9.4
62.5°	8.3	8.3	8.3	8.3	8.3
65°	7.1	7.1	7.1	7.1	7.1
67.5°	7.1	7.1	7.1	7.1	7.1
70°	5.9	5.9	5.9	5.9	5.9
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°	2.4	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

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







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

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(END OF REPORT)