

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: P790047

Luminaire Tested: LER6D20D010-EC6DR1515309030-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790047  
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-EC6DR1515309030-6LBDDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1810.0 lumens  
Efficiency: N/A  
Efficacy: 78.4 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

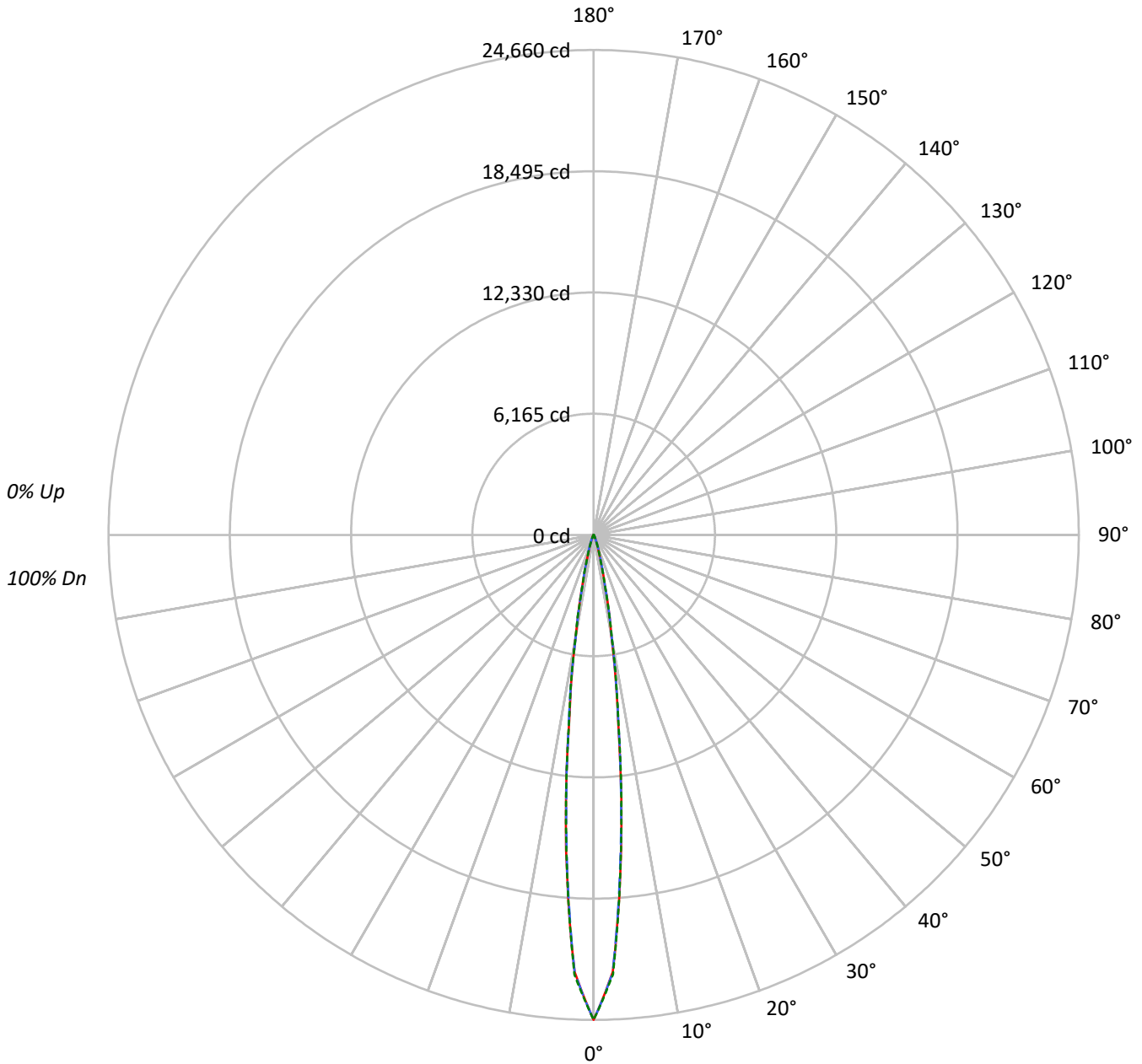
Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	2774798	2774798	2774798
5°	1630605	1609487	1622221
10°	486655	490070	497572
15°	121052	123406	119602
20°	36215	41942	36984
25°	12768	16266	12932
30°	4688	6178	4770
35°	2353	2651	2273
40°	1484	1633	1484
45°	1099	1169	1099
50°	869	869	869
55°	724	724	724
60°	590	590	590
65°	450	450	450
70°	380	380	380
75°	234	234	317
80°	166	166	166
85°	83	83	83

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 1169 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1173.9	64.9
10°-20°	482.9	26.7
20°-30°	95.9	5.3
30°-40°	23.9	1.3
40°-50°	12.6	0.7
50°-60°	9.3	0.5
60°-70°	6.6	0.4
70°-80°	3.7	0.2
80°-90°	1.1	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°	1752.6	96.8
0°-40°	1776.6	98.2
0°-60°	1798.5	99.4
0°-90°	1810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1810.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	24660	24660	24660	24660	24660	
5°	16045	15880	15837	15946	15962	1172
15°	1394	1420	1421	1396	1377	478
25°	164	186	209	185	166	86
35°	32	34	36	34	31	22
45°	16	16	17	16	16	12
55°	10	10	10	10	10	9
65°	6	6	6	6	6	7
75°	3	3	3	3	4	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°	24660.5	24660.5	24660.5	24660.5	24660.5
2.5°	22244.7	22263.5	22270.8	22292.8	22374.2
5°	16044.7	15879.7	15836.9	15946.5	15962.2
7.5°	9504.2	9537.6	9659.8	9686.9	9588.8
10°	5215.6	5258.4	5252.2	5289.8	5332.6
12.5°	2667.3	2633.9	2623.5	2666.3	2606.8
15°	1393.7	1419.8	1420.8	1395.8	1377.0
17.5°	749.6	779.8	829.9	789.2	726.6
20°	442.6	469.8	512.6	479.2	452.0
22.5°	273.5	295.4	325.7	299.6	277.7
25°	163.9	185.8	208.8	184.8	166.0
27.5°	97.1	115.9	130.5	114.8	96.0
30°	62.6	73.1	82.5	72.0	63.7
32.5°	43.8	48.0	52.2	48.0	43.8
35°	32.4	34.5	36.5	34.5	31.3
37.5°	25.1	27.1	28.2	26.1	24.0
40°	20.9	21.9	23.0	21.9	20.9
42.5°	17.7	18.8	18.8	18.8	17.7
45°	15.7	15.7	16.7	15.7	15.7
47.5°	13.6	13.6	14.6	13.6	13.6
50°	12.5	12.5	12.5	12.5	12.5
52.5°	11.5	11.5	11.5	11.5	11.5
55°	10.4	10.4	10.4	10.4	10.4
57.5°	9.4	9.4	9.4	9.4	9.4
60°	8.4	8.4	8.4	8.4	8.4
62.5°	7.3	7.3	7.3	7.3	7.3
65°	6.3	6.3	6.3	6.3	6.3
67.5°	6.3	6.3	6.3	6.3	6.3
70°	5.2	5.2	5.2	5.2	5.2
72.5°	4.2	4.2	4.2	4.2	4.2
75°	3.1	3.1	3.1	3.1	4.2
77.5°	3.1	3.1	3.1	3.1	3.1
80°	2.1	2.1	2.1	2.1	2.1
82.5°	2.1	2.1	2.1	2.1	2.1
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)