

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: P790075

Luminaire Tested: LER6D20D010-EC6DR1515309050-6LBS1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P790075  
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-EC6DR1515309050-6LBS1B  
Description: 6 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2051.3 lumens  
Efficiency: N/A  
Efficacy: 88.8 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

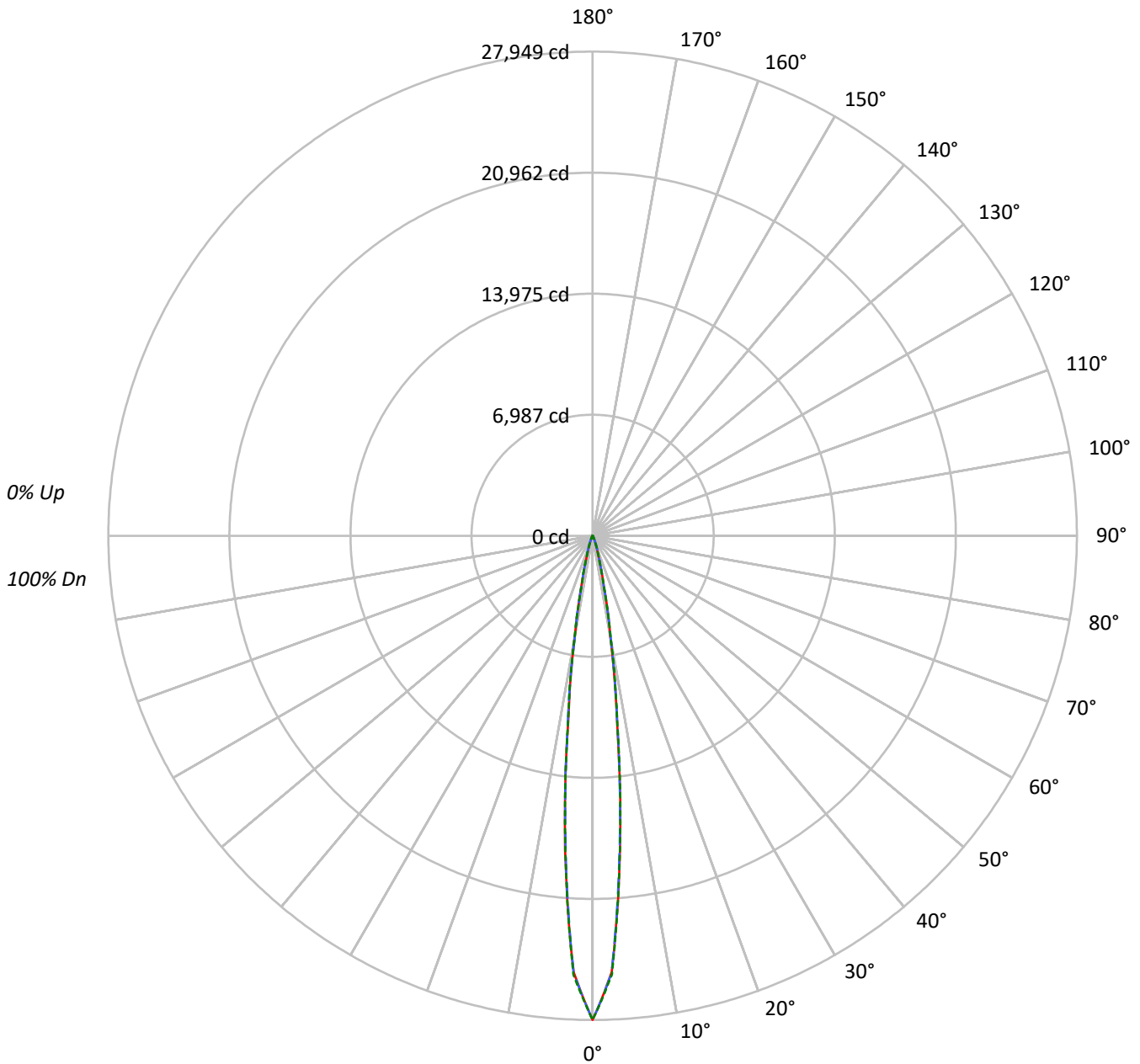
Input Watts (W): 23.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	3144865	3144865	3144865
5°	1848071	1824137	1838569
10°	551560	555423	563923
15°	137199	139866	135549
20°	41050	47531	41918
25°	14474	18431	14653
30°	5317	7001	5406
35°	2665	3006	2578
40°	1683	1846	1683
45°	1239	1323	1239
50°	987	987	987
55°	821	821	821
60°	667	667	667
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°	1330.4	64.9
10°-20°	547.2	26.7
20°-30°	108.7	5.3
30°-40°	27.1	1.3
40°-50°	14.3	0.7
50°-60°	10.6	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°	1986.4	96.8
0°-40°	2013.5	98.2
0°-60°	2038.3	99.4
0°-90°	2051.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2051.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	27949	27949	27949	27949	27949	
5°	18184	17998	17949	18073	18091	1328
15°	1580	1609	1610	1582	1561	542
25°	186	211	237	209	188	98
35°	37	39	41	39	36	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°	27949.4	27949.4	27949.4	27949.4	27949.4
2.5°	25211.5	25232.8	25241.1	25265.9	25358.2
5°	18184.5	17997.5	17949.0	18073.3	18091.0
7.5°	10771.8	10809.6	10948.1	10978.8	10867.6
10°	5911.2	5959.7	5952.6	5995.2	6043.7
12.5°	3023.1	2985.2	2973.4	3021.9	2954.4
15°	1579.6	1609.1	1610.3	1581.9	1560.6
17.5°	849.5	883.8	940.6	894.5	823.5
20°	501.7	532.4	580.9	543.1	512.3
22.5°	310.0	334.8	369.2	339.6	314.7
25°	185.8	210.6	236.6	209.4	188.1
27.5°	110.0	131.3	147.9	130.2	108.9
30°	71.0	82.8	93.5	81.6	72.2
32.5°	49.7	54.4	59.2	54.4	49.7
35°	36.7	39.0	41.4	39.0	35.5
37.5°	28.4	30.8	31.9	29.6	27.2
40°	23.7	24.8	26.0	24.8	23.7
42.5°	20.1	21.3	21.3	21.3	20.1
45°	17.7	17.7	18.9	17.7	17.7
47.5°	15.4	15.4	16.6	15.4	15.4
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°	9.5	9.5	9.5	9.5	9.5
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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