

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: P787103

Luminaire Tested: LER6D02D010-EC6DR300210IC9040-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P787103  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LER6D02D010-EC6DR300210IC9040-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 539.6 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49  
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')  
CIE Type: Direct

Input Watts (W): 5.1  
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

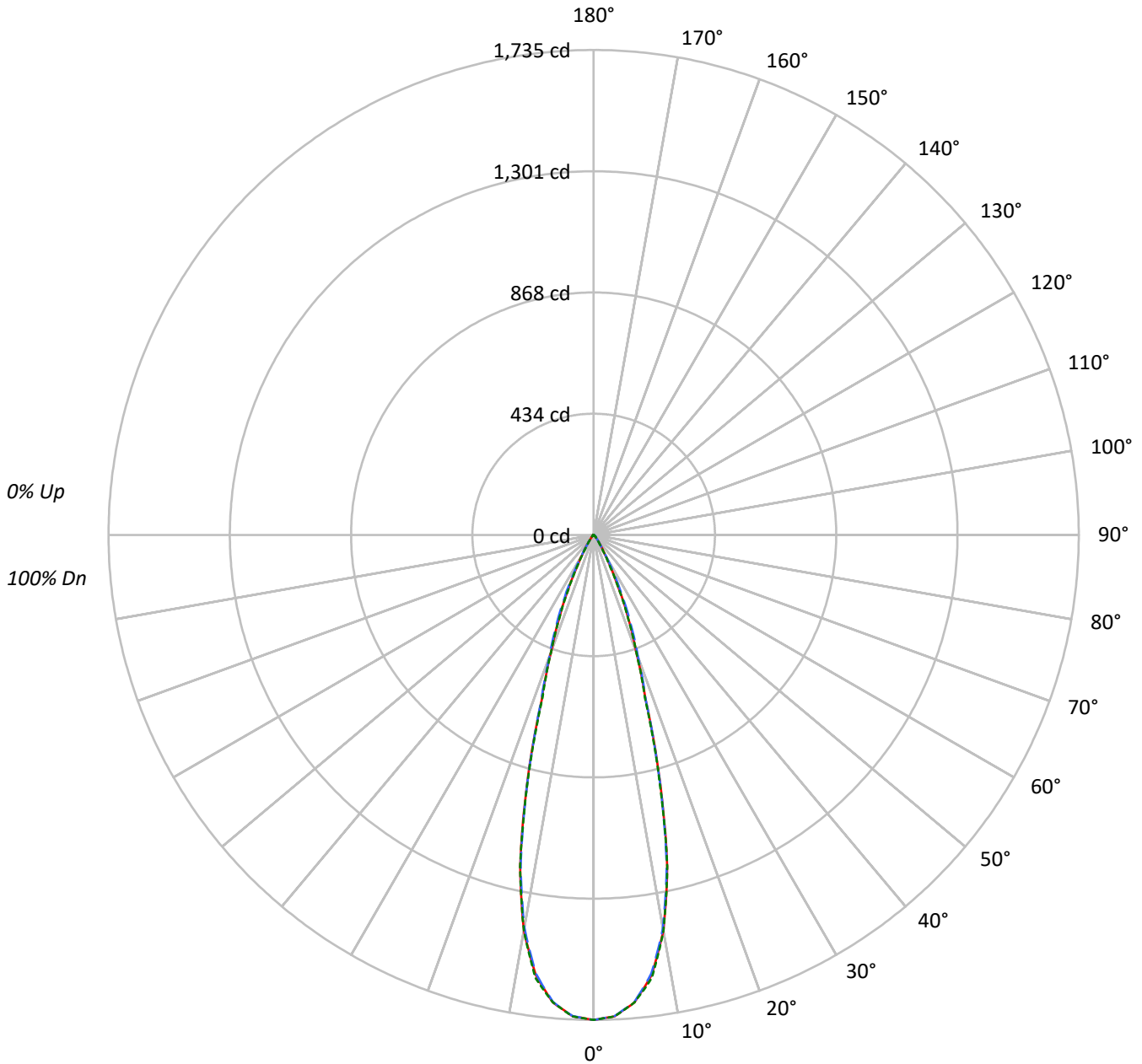


Downlight

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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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	132803	132803	132803
5°	128984	128838	128992
10°	111721	110936	111697
15°	72896	72500	72135
20°	36248	37608	36199
25°	18259	20590	17888
30°	7309	7963	6373
35°	3392	3252	2719
40°	1469	1629	1379
45°	1028	1277	1039
50°	357	929	381
55°	200	387	214
60°	138	168	138
65°	91	91	91
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 1277 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	152.6	28.3
10°-20°	245.7	45.5
20°-30°	106.2	19.7
30°-40°	24.2	4.5
40°-50°	8.3	1.5
50°-60°	2.0	0.4
60°-70°	0.5	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	504.4	93.5
0°-40°	528.6	98.0
0°-60°	539.0	99.9
0°-90°	539.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	539.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1679	1677	1677	1680	1679	153
15°	920	909	915	912	910	246
25°	216	224	244	219	212	103
35°	36	37	35	34	29	25
45°	10	12	12	12	10	7
55°	2	2	3	2	2	1
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1735.0	1735.0	1735.0	1735.0	1735.0
2.5°	1723.5	1722.3	1722.9	1723.8	1724.1
5°	1678.7	1677.1	1676.8	1680.3	1678.8
7.5°	1588.5	1586.2	1582.7	1590.7	1598.1
10°	1437.4	1434.9	1427.3	1431.0	1437.1
12.5°	1214.3	1206.1	1205.9	1217.8	1216.2
15°	919.9	908.8	914.9	911.9	910.3
17.5°	618.6	614.3	622.5	620.0	609.4
20°	445.0	446.1	461.7	453.8	444.4
22.5°	324.7	328.7	347.2	327.0	319.6
25°	216.2	224.4	243.8	218.7	211.8
27.5°	133.0	136.7	156.4	131.3	127.5
30°	82.7	80.8	90.1	77.3	72.1
32.5°	54.3	51.9	54.9	49.2	45.0
35°	36.3	37.1	34.8	34.5	29.1
37.5°	22.7	26.1	23.0	24.5	18.7
40°	14.7	18.9	16.3	18.0	13.8
42.5°	12.0	14.6	13.4	14.2	12.3
45°	9.5	11.8	11.8	11.8	9.6
47.5°	5.3	7.9	10.1	8.1	5.6
50°	3.0	4.0	7.8	4.2	3.2
52.5°	2.0	2.3	5.4	2.4	2.1
55°	1.5	1.6	2.9	1.7	1.6
57.5°	1.2	1.3	1.5	1.3	1.2
60°	0.9	0.9	1.1	1.0	0.9
62.5°	0.7	0.7	0.8	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)