

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: P787703

Luminaire Tested: LER6D05D010-EC6DR300210IC9027-6LBDP1B

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P787703  
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: LER6D05D010-EC6DR300210IC9027-6LBDP1B  
Description: 6 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 878.2 lumens  
Efficiency: N/A  
Efficacy: 117.1 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): 7.5  
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

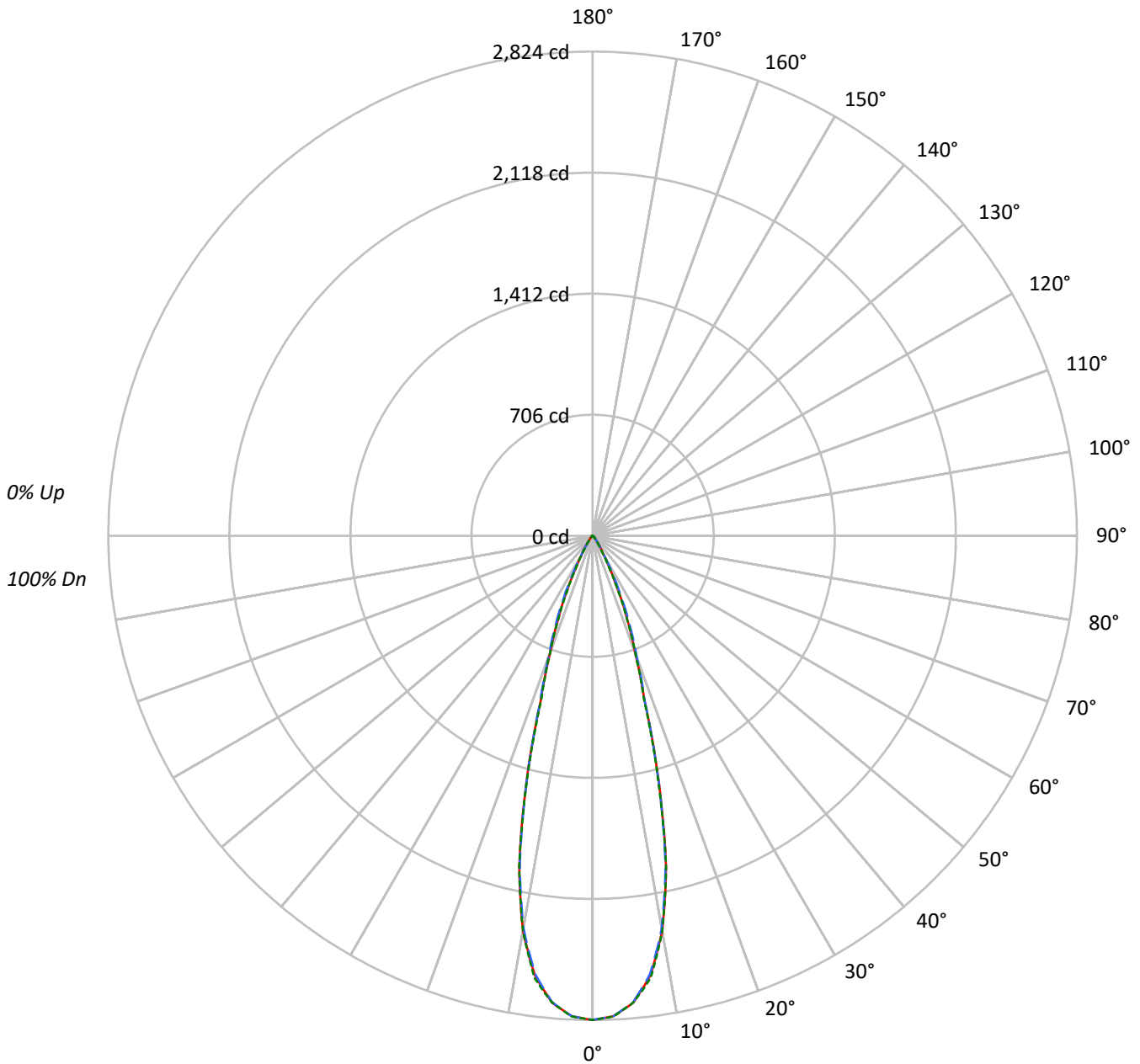


Downlight

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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°	216143	216143	216143
5°	209938	209693	209946
10°	181836	180553	181797
15°	118636	118002	117407
20°	58990	61206	58917
25°	29720	33512	29112
30°	11897	12966	10368
35°	5522	5289	4429
40°	2378	2648	2248
45°	1678	2089	1700
50°	583	1524	607
55°	334	627	347
60°	230	276	230
65°	145	145	145
70°	90	67	90
75°	0	30	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 2089 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.3	28.3
10°-20°	399.9	45.5
20°-30°	172.8	19.7
30°-40°	39.4	4.5
40°-50°	13.5	1.5
50°-60°	3.3	0.4
60°-70°	0.9	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°	821.0	93.5
0°-40°	860.4	98.0
0°-60°	877.2	99.9
0°-90°	878.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	878.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2824	2824	2824	2824	2824	
5°	2732	2730	2729	2735	2732	249
15°	1497	1479	1489	1484	1482	401
25°	352	365	397	356	345	168
35°	59	60	57	56	47	40
45°	16	19	19	19	16	11
55°	2	3	5	3	3	2
65°	1	1	1	1	1	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°	2823.8	2823.8	2823.8	2823.8	2823.8
2.5°	2805.1	2803.1	2804.2	2805.6	2806.2
5°	2732.3	2729.6	2729.1	2734.8	2732.4
7.5°	2585.5	2581.7	2576.0	2588.9	2601.0
10°	2339.5	2335.3	2323.0	2329.1	2339.0
12.5°	1976.4	1963.0	1962.7	1982.1	1979.5
15°	1497.1	1479.1	1489.1	1484.3	1481.6
17.5°	1006.8	999.9	1013.2	1009.1	991.8
20°	724.2	726.0	751.4	738.7	723.3
22.5°	528.5	535.0	565.1	532.2	520.2
25°	351.9	365.2	396.8	355.9	344.7
27.5°	216.4	222.5	254.5	213.6	207.5
30°	134.6	131.6	146.7	125.9	117.3
32.5°	88.3	84.4	89.3	80.1	73.2
35°	59.1	60.3	56.6	56.1	47.4
37.5°	36.9	42.4	37.4	39.9	30.5
40°	23.8	30.8	26.5	29.3	22.5
42.5°	19.5	23.7	21.8	23.2	20.0
45°	15.5	19.3	19.3	19.3	15.7
47.5°	8.6	12.9	16.5	13.2	9.2
50°	4.9	6.5	12.8	6.8	5.1
52.5°	3.3	3.7	8.7	3.9	3.5
55°	2.5	2.6	4.7	2.8	2.6
57.5°	1.9	2.1	2.5	2.1	1.9
60°	1.5	1.5	1.8	1.7	1.5
62.5°	1.1	1.1	1.2	1.1	1.1
65°	0.8	0.8	0.8	0.8	0.8
67.5°	0.4	0.6	0.6	0.6	0.6
70°	0.4	0.3	0.3	0.3	0.4
72.5°	0.3	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)