

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: P788176

Luminaire Tested: LER6D08D010-EC6DR150210IC9024-6LBDP1H

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P788176  
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: LER6D08D010-EC6DR150210IC9024-6LBDP1H  
Description: 6 INCH ROUND DEEP 45° CUTOFF SEMI-SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 685.1 lumens  
Efficiency: N/A  
Efficacy: 77.0 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): 8.9  
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

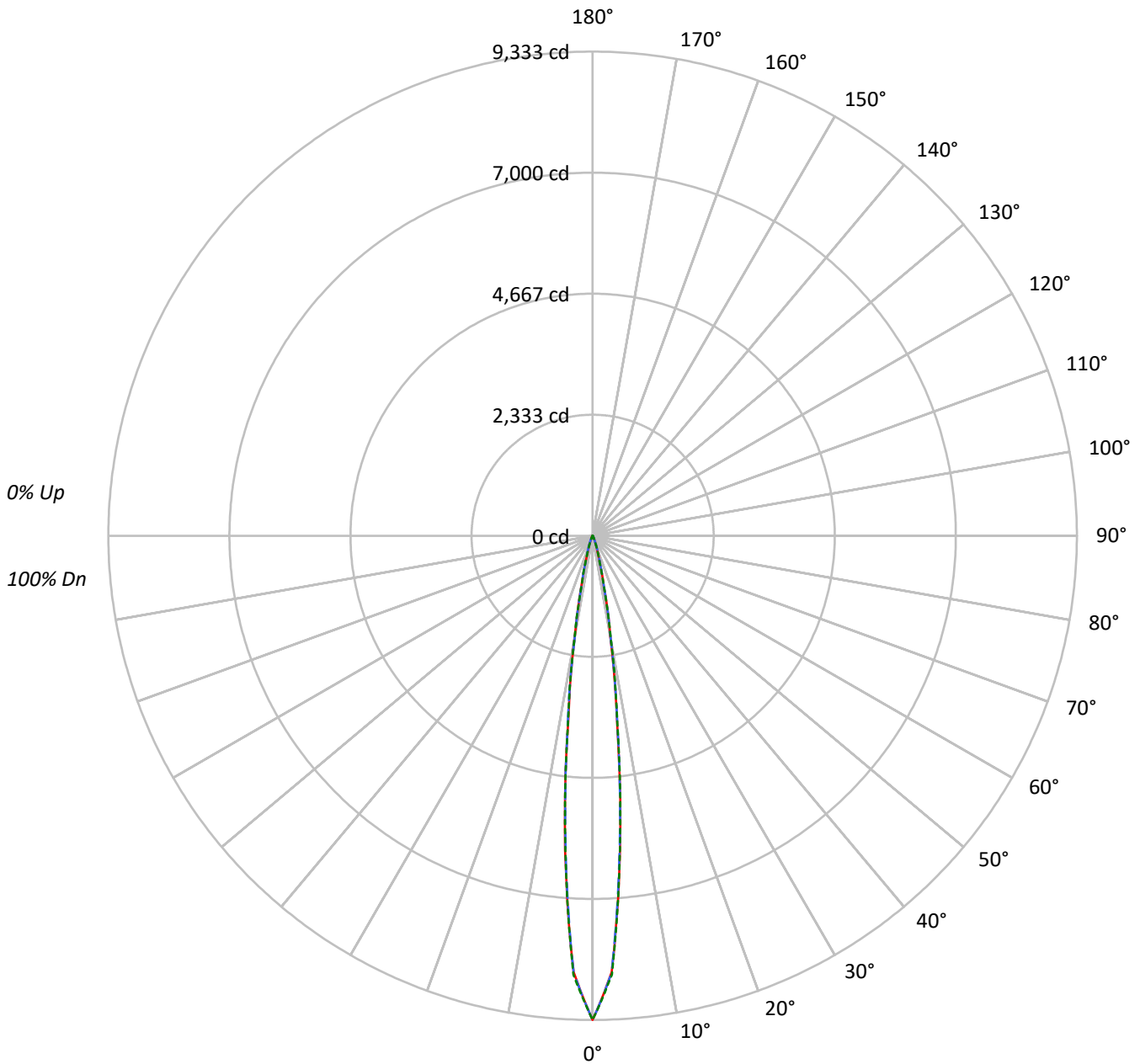


Downlight

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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				100															
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98				98															
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96				96															
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94				94															
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93				93															
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92				92															
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90				90															
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89				89															
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88				88															
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87				87															
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86				86															

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

	0°	45°	90°
0°	1050160	1050160	1050160
5°	617121	609133	613950
10°	184180	185477	188313
15°	45817	46703	45261
20°	13705	15874	14000
25°	4830	6154	4892
30°	1775	2336	1805
35°	886	1002	864
40°	561	618	561
45°	413	441	413
50°	327	327	327
55°	278	278	278
60°	225	225	225
65°	171	171	171
70°	146	146	146
75°	91	91	121
80°	63	63	63
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	444.3	64.9
10°-20°	182.7	26.7
20°-30°	36.3	5.3
30°-40°	9.1	1.3
40°-50°	4.7	0.7
50°-60°	3.5	0.5
60°-70°	2.5	0.4
70°-80°	1.4	0.2
80°-90°	0.4	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°	663.3	96.8
0°-40°	672.4	98.1
0°-60°	680.7	99.4
0°-90°	685.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	685.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9333	9333	9333	9333	9333	
5°	6072	6010	5994	6035	6041	443
15°	528	537	538	528	521	181
25°	62	70	79	70	63	33
35°	12	13	14	13	12	8
45°	6	6	6	6	6	5
55°	4	4	4	4	4	4
65°	2	2	2	2	2	3
75°	1	1	1	1	2	1
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°	9333.1	9333.1	9333.1	9333.1	9333.1
2.5°	8418.8	8425.9	8428.7	8437.0	8467.8
5°	6072.3	6009.9	5993.7	6035.2	6041.1
7.5°	3597.0	3609.6	3655.9	3666.1	3629.0
10°	1973.9	1990.1	1987.8	2002.0	2018.2
12.5°	1009.5	996.8	992.9	1009.1	986.6
15°	527.5	537.3	537.7	528.3	521.1
17.5°	283.7	295.1	314.1	298.7	275.0
20°	167.5	177.8	194.0	181.4	171.1
22.5°	103.5	111.8	123.3	113.4	105.1
25°	62.0	70.3	79.0	69.9	62.8
27.5°	36.7	43.9	49.4	43.5	36.3
30°	23.7	27.7	31.2	27.3	24.1
32.5°	16.6	18.2	19.8	18.2	16.6
35°	12.2	13.0	13.8	13.0	11.9
37.5°	9.5	10.3	10.7	9.9	9.1
40°	7.9	8.3	8.7	8.3	7.9
42.5°	6.7	7.1	7.1	7.1	6.7
45°	5.9	5.9	6.3	5.9	5.9
47.5°	5.1	5.1	5.5	5.1	5.1
50°	4.7	4.7	4.7	4.7	4.7
52.5°	4.3	4.3	4.3	4.3	4.3
55°	4.0	4.0	4.0	4.0	4.0
57.5°	3.6	3.6	3.6	3.6	3.6
60°	3.2	3.2	3.2	3.2	3.2
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.4	2.4	2.4	2.4	2.4
67.5°	2.4	2.4	2.4	2.4	2.4
70°	2.0	2.0	2.0	2.0	2.0
72.5°	1.6	1.6	1.6	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.6
77.5°	1.2	1.2	1.2	1.2	1.2
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
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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