

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: P759153

Luminaire Tested: LD6D08D010-EU6DR300210IC9024-6LBDP1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P759153  
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: LD6D08D010-EU6DR300210IC9024-6LBDP1MW  
Description: 6 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 590.9 lumens  
Efficiency: N/A  
Efficacy: 66.4 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): 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



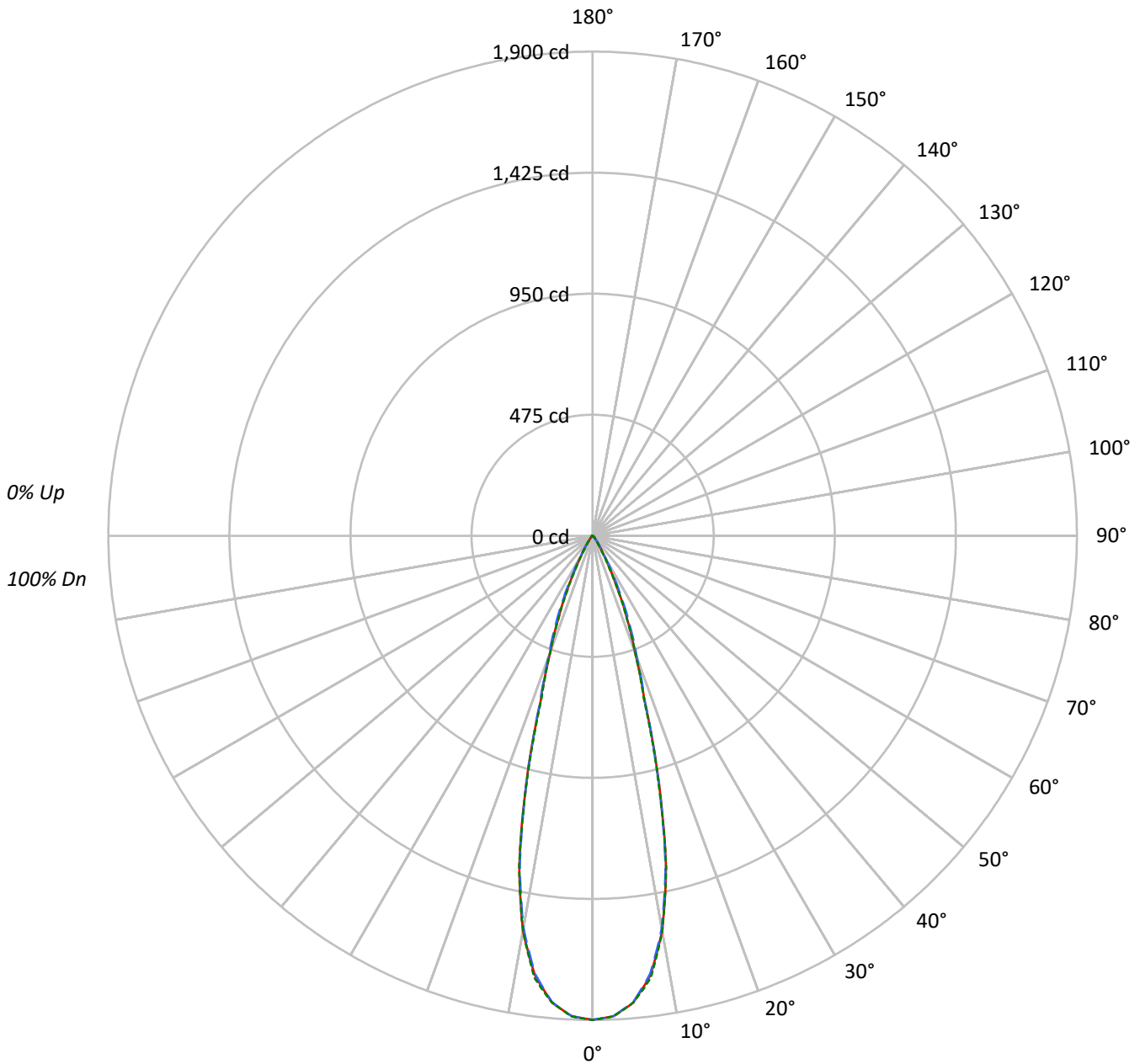
Downlight



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

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

	0°	45°	90°
0°	145417	145417	145417
5°	141247	141078	141255
10°	122346	121483	122315
15°	79822	79394	78990
20°	39693	41184	39636
25°	19991	22541	19585
30°	8008	8724	6974
35°	3719	3551	2981
40°	1599	1779	1509
45°	1126	1396	1137
50°	393	1024	405
55°	227	427	240
60°	153	184	153
65°	109	109	109
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: 1396 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.1	28.3
10°-20°	269.1	45.5
20°-30°	116.3	19.7
30°-40°	26.5	4.5
40°-50°	9.1	1.5
50°-60°	2.2	0.4
60°-70°	0.6	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°	552.4	93.5
0°-40°	578.9	98.0
0°-60°	590.2	99.9
0°-90°	590.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	590.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1838	1836	1836	1840	1838	167
15°	1007	995	1002	999	997	270
25°	237	246	267	239	232	113
35°	40	41	38	38	32	27
45°	10	13	13	13	10	7
55°	2	2	3	2	2	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°	1899.8	1899.8	1899.8	1899.8	1899.8
2.5°	1887.2	1886.0	1886.7	1887.6	1888.0
5°	1838.3	1836.5	1836.1	1840.0	1838.4
7.5°	1739.5	1737.0	1733.2	1741.8	1750.0
10°	1574.1	1571.3	1563.0	1567.0	1573.7
12.5°	1329.8	1320.7	1320.5	1333.6	1331.8
15°	1007.3	995.2	1001.9	998.6	996.8
17.5°	677.4	672.7	681.6	678.9	667.3
20°	487.3	488.5	505.6	497.0	486.6
22.5°	355.6	359.9	380.2	358.1	350.0
25°	236.7	245.7	266.9	239.4	231.9
27.5°	145.6	149.7	171.3	143.8	139.6
30°	90.6	88.5	98.7	84.7	78.9
32.5°	59.4	56.8	60.0	53.9	49.3
35°	39.8	40.6	38.0	37.8	31.9
37.5°	24.8	28.5	25.2	26.9	20.5
40°	16.0	20.7	17.8	19.7	15.1
42.5°	13.2	15.9	14.7	15.6	13.4
45°	10.4	12.9	12.9	12.9	10.5
47.5°	5.8	8.7	11.1	8.9	6.1
50°	3.3	4.4	8.6	4.6	3.4
52.5°	2.2	2.5	5.9	2.6	2.3
55°	1.7	1.8	3.2	1.9	1.8
57.5°	1.3	1.4	1.7	1.4	1.3
60°	1.0	1.0	1.2	1.1	1.0
62.5°	0.7	0.7	0.9	0.7	0.7
65°	0.6	0.6	0.6	0.6	0.6
67.5°	0.3	0.4	0.4	0.4	0.4
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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