

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: P740087

Luminaire Tested: LD4D05D010-EU4DR300210IC9027-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740087  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/30/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR300210IC9027-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 631.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 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



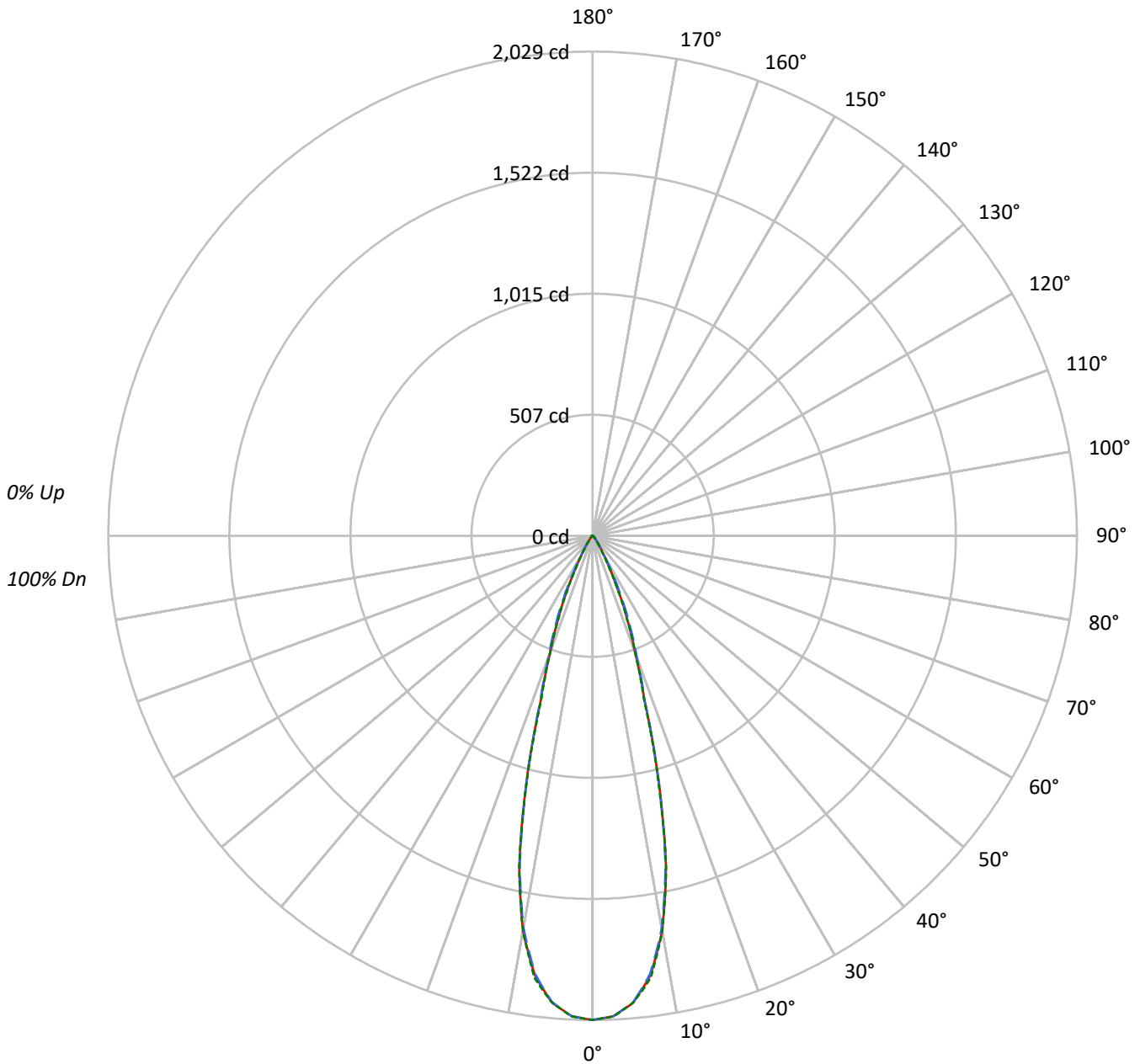
Downlight



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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°	155299	155299	155299
5°	150844	150667	150844
10°	130647	129729	130616
15°	85242	84783	84355
20°	42390	43978	42333
25°	21351	24078	20911
30°	8547	9316	7451
35°	3971	3794	3186
40°	1709	1898	1619
45°	1212	1505	1212
50°	417	1096	441
55°	240	454	254
60°	168	199	168
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: 1505 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	178.4	28.3
10°-20°	287.3	45.5
20°-30°	124.2	19.7
30°-40°	28.3	4.5
40°-50°	9.7	1.5
50°-60°	2.4	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°	589.9	93.5
0°-40°	618.2	98.0
0°-60°	630.3	99.9
0°-90°	631.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	631.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2029	2029	2029	2029	2029	
5°	1963	1961	1961	1965	1963	179
15°	1076	1063	1070	1066	1064	288
25°	253	262	285	256	248	121
35°	42	43	41	40	34	29
45°	11	14	14	14	11	8
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2028.9	2028.9	2028.9	2028.9	2028.9
2.5°	2015.4	2014.0	2014.8	2015.8	2016.2
5°	1963.2	1961.3	1960.9	1964.9	1963.2
7.5°	1857.6	1855.0	1850.9	1860.1	1868.8
10°	1680.9	1677.9	1669.1	1673.5	1680.5
12.5°	1420.1	1410.4	1410.2	1424.1	1422.2
15°	1075.7	1062.8	1069.9	1066.4	1064.5
17.5°	723.4	718.4	727.9	725.1	712.6
20°	520.4	521.7	539.9	530.7	519.7
22.5°	379.7	384.4	406.0	382.4	373.7
25°	252.8	262.4	285.1	255.7	247.6
27.5°	155.5	159.9	182.9	153.5	149.1
30°	96.7	94.5	105.4	90.5	84.3
32.5°	63.4	60.7	64.2	57.6	52.6
35°	42.5	43.3	40.6	40.3	34.1
37.5°	26.5	30.5	26.9	28.7	21.9
40°	17.1	22.1	19.0	21.0	16.2
42.5°	14.0	17.0	15.6	16.6	14.3
45°	11.2	13.9	13.9	13.9	11.2
47.5°	6.2	9.3	11.9	9.5	6.6
50°	3.5	4.7	9.2	4.9	3.7
52.5°	2.4	2.7	6.3	2.8	2.5
55°	1.8	1.9	3.4	2.0	1.9
57.5°	1.4	1.5	1.8	1.5	1.4
60°	1.1	1.1	1.3	1.2	1.1
62.5°	0.8	0.8	0.9	0.8	0.8
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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(END OF REPORT)