

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: P744140

Luminaire Tested: LD4D20D010-EU4DR3020359035-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744140  
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: LD4D20D010-EU4DR3020359035-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2001.0 lumens  
Efficiency: N/A  
Efficacy: 86.6 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): 23.1  
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

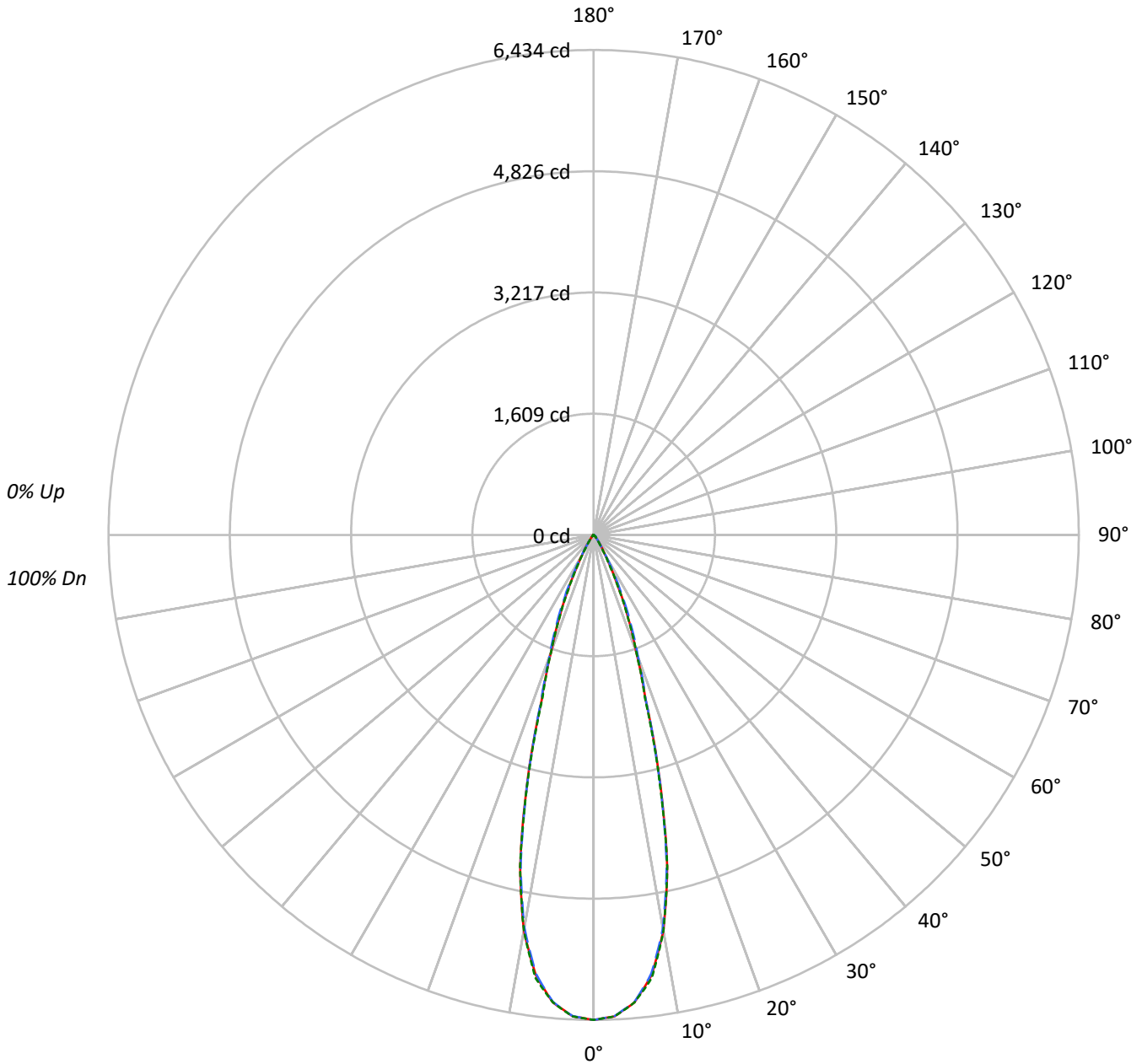


Downlight



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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°	492488	492488	492488
5°	478349	477796	478380
10°	414324	411402	414231
15°	270324	268873	267518
20°	134418	139460	134239
25°	67709	76357	66324
30°	27116	29538	23616
35°	12577	12045	10101
40°	5426	6025	5116
45°	3832	4752	3864
50°	1322	3453	1393
55°	761	1428	801
60°	536	628	536
65°	344	344	344
70°	224	134	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 4752 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.8	28.3
10°-20°	911.2	45.5
20°-30°	393.8	19.7
30°-40°	89.7	4.5
40°-50°	30.8	1.5
50°-60°	7.5	0.4
60°-70°	2.0	0.1
70°-80°	0.2	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°	1870.7	93.5
0°-40°	1960.5	98.0
0°-60°	1998.8	99.9
0°-90°	2001.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2001.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6434	6434	6434	6434	6434	
5°	6226	6220	6218	6231	6226	566
15°	3411	3370	3393	3382	3376	913
25°	802	832	904	811	785	384
35°	135	137	129	128	108	91
45°	35	44	44	44	36	25
55°	6	6	11	6	6	6
65°	2	2	2	2	2	2
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°	6434.1	6434.1	6434.1	6434.1	6434.1
2.5°	6391.5	6387.1	6389.6	6392.8	6394.0
5°	6225.6	6219.7	6218.4	6231.4	6226.0
7.5°	5891.1	5882.6	5869.7	5899.0	5926.5
10°	5330.7	5321.2	5293.1	5307.0	5329.5
12.5°	4503.4	4472.7	4472.1	4516.3	4510.3
15°	3411.3	3370.3	3393.0	3382.0	3375.9
17.5°	2294.0	2278.2	2308.5	2299.4	2259.9
20°	1650.2	1654.3	1712.1	1683.1	1648.0
22.5°	1204.2	1219.0	1287.6	1212.7	1185.3
25°	801.7	832.0	904.1	810.9	785.3
27.5°	493.1	507.0	580.0	486.8	472.9
30°	306.8	299.8	334.2	286.8	267.2
32.5°	201.2	192.4	203.5	182.6	166.8
35°	134.6	137.4	128.9	127.9	108.1
37.5°	84.1	96.7	85.3	91.0	69.5
40°	54.3	70.1	60.3	66.6	51.2
42.5°	44.5	54.0	49.6	52.8	45.5
45°	35.4	43.9	43.9	43.9	35.7
47.5°	19.6	29.4	37.6	30.0	20.9
50°	11.1	14.8	29.0	15.5	11.7
52.5°	7.6	8.5	19.9	8.8	7.9
55°	5.7	6.0	10.7	6.3	6.0
57.5°	4.4	4.8	5.7	4.8	4.4
60°	3.5	3.5	4.1	3.8	3.5
62.5°	2.5	2.5	2.9	2.5	2.5
65°	1.9	1.9	1.9	1.9	1.9
67.5°	1.0	1.3	1.3	1.3	1.3
70°	1.0	0.6	0.6	0.6	1.0
72.5°	0.6	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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)