

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P744163

Luminaire Tested: LD4D20D010-EU4DR3020359050-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P744163  
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-EU4DR3020359050-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2027.0 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

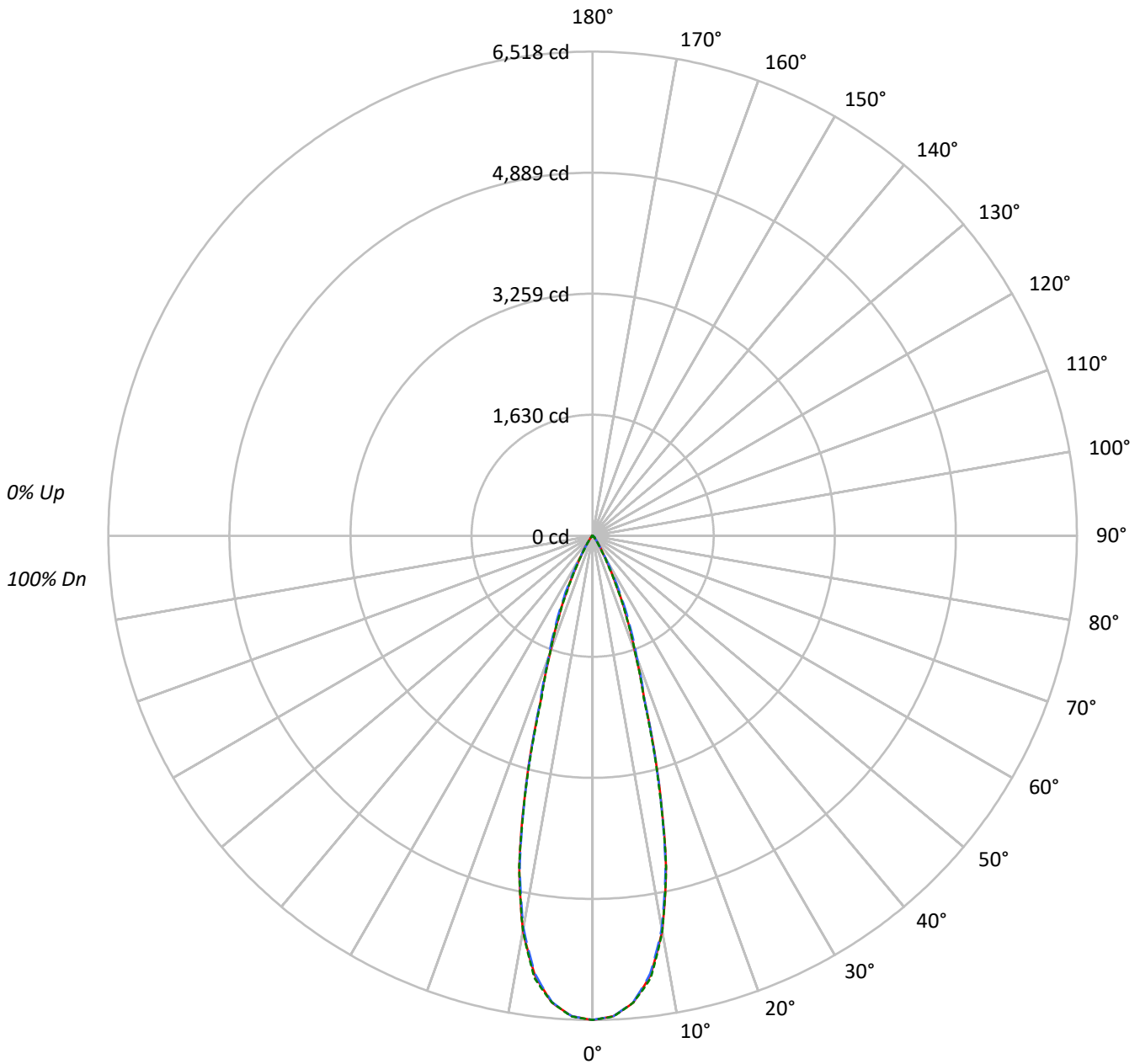


Downlight



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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	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°	498887	498887	498887
5°	484565	484004	484596
10°	419711	416749	419610
15°	273842	272368	270997
20°	136170	141277	135982
25°	68595	77354	67185
30°	27461	29927	23926
35°	12736	12204	10223
40°	5506	6105	5186
45°	3886	4817	3919
50°	1334	3501	1417
55°	774	1455	814
60°	536	643	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: 4817 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	573.1	28.3
10°-20°	923.0	45.5
20°-30°	398.9	19.7
30°-40°	90.9	4.5
40°-50°	31.2	1.5
50°-60°	7.6	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°	1895.0	93.5
0°-40°	1986.0	98.0
0°-60°	2024.8	99.9
0°-90°	2027.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2027.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6518	6518	6518	6518	6518	
5°	6306	6300	6299	6312	6307	574
15°	3456	3414	3437	3426	3420	925
25°	812	843	916	821	796	389
35°	136	139	131	130	109	92
45°	36	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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6517.7	6517.7	6517.7	6517.7	6517.7
2.5°	6474.5	6470.0	6472.6	6475.8	6477.1
5°	6306.5	6300.5	6299.2	6312.3	6306.9
7.5°	5967.7	5959.0	5945.9	5975.6	6003.5
10°	5400.0	5390.4	5361.9	5376.0	5398.7
12.5°	4561.9	4530.9	4530.2	4575.0	4568.9
15°	3455.7	3414.0	3437.1	3425.9	3419.8
17.5°	2323.8	2307.8	2338.6	2329.3	2289.3
20°	1671.7	1675.8	1734.4	1704.9	1669.4
22.5°	1219.8	1234.9	1304.3	1228.5	1200.6
25°	812.2	842.9	915.9	821.4	795.5
27.5°	499.5	513.6	587.5	493.1	479.0
30°	310.7	303.7	338.6	290.5	270.7
32.5°	203.9	194.9	206.1	184.9	169.0
35°	136.3	139.2	130.6	129.6	109.4
37.5°	85.1	97.9	86.4	92.2	70.4
40°	55.1	71.0	61.1	67.5	51.9
42.5°	45.1	54.7	50.2	53.5	46.1
45°	35.9	44.5	44.5	44.5	36.2
47.5°	19.8	29.7	38.1	30.4	21.1
50°	11.2	15.0	29.4	15.7	11.9
52.5°	7.7	8.7	20.2	8.9	8.0
55°	5.8	6.1	10.9	6.4	6.1
57.5°	4.5	4.8	5.8	4.8	4.5
60°	3.5	3.5	4.2	3.8	3.5
62.5°	2.6	2.6	2.9	2.6	2.6
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

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Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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(END OF REPORT)