

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: P743170

Luminaire Tested: LD4D15D010-EU4DR300215IC9050-4LBDP1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743170  
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: LD4D15D010-EU4DR300215IC9050-4LBDP1H  
Description: 4 INCH ROUND DEEP 45° CUTOFF SEMI-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: 1405.9 lumens  
Efficiency: N/A  
Efficacy: 89.0 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): 15.8  
Input Voltage (V): NR  
Input Current (Ain): 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



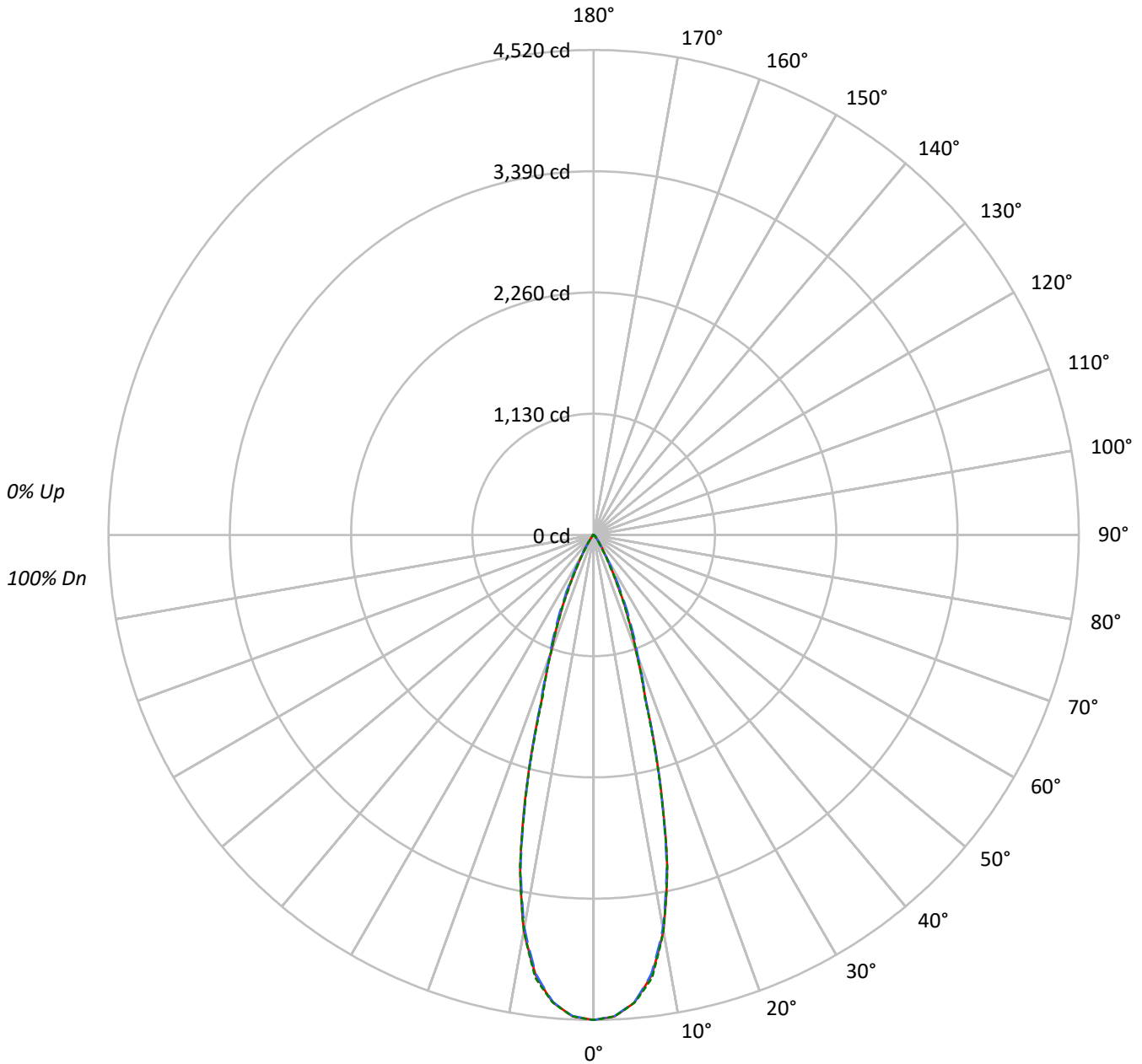
Downlight



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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°	346014	346014	346014
5°	336080	335688	336103
10°	291100	289049	291030
15°	189931	188909	187958
20°	94440	97983	94318
25°	47574	53647	46603
30°	19047	20753	16599
35°	8830	8457	7092
40°	3817	4237	3597
45°	2695	3334	2717
50°	929	2429	976
55°	534	1014	560
60°	383	444	383
65°	235	235	235
70°	157	112	157
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3334 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	397.5	28.3
10°-20°	640.2	45.5
20°-30°	276.6	19.7
30°-40°	63.1	4.5
40°-50°	21.6	1.5
50°-60°	5.3	0.4
60°-70°	1.4	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°	1314.4	93.5
0°-40°	1377.4	98.0
0°-60°	1404.3	99.9
0°-90°	1405.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1405.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4520	4520	4520	4520	4520	
5°	4374	4370	4369	4378	4374	398
15°	2397	2368	2384	2376	2372	642
25°	563	585	635	570	552	270
35°	94	96	90	90	76	64
45°	25	31	31	31	25	18
55°	4	4	8	4	4	4
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°	4520.5	4520.5	4520.5	4520.5	4520.5
2.5°	4490.6	4487.5	4489.2	4491.4	4492.3
5°	4374.0	4369.8	4368.9	4378.0	4374.3
7.5°	4139.0	4133.0	4123.9	4144.6	4163.9
10°	3745.3	3738.6	3718.9	3728.6	3744.4
12.5°	3164.0	3142.5	3142.1	3173.1	3168.9
15°	2396.8	2367.9	2383.9	2376.1	2371.9
17.5°	1611.8	1600.7	1622.0	1615.5	1587.8
20°	1159.4	1162.3	1202.9	1182.5	1157.9
22.5°	846.0	856.4	904.6	852.0	832.7
25°	563.3	584.6	635.2	569.7	551.8
27.5°	346.5	356.2	407.5	342.0	332.3
30°	215.5	210.6	234.8	201.5	187.8
32.5°	141.4	135.2	143.0	128.3	117.2
35°	94.5	96.5	90.5	89.9	75.9
37.5°	59.0	67.9	59.9	63.9	48.8
40°	38.2	49.3	42.4	46.8	36.0
42.5°	31.3	37.9	34.8	37.1	32.0
45°	24.9	30.8	30.8	30.8	25.1
47.5°	13.8	20.6	26.4	21.1	14.7
50°	7.8	10.4	20.4	10.9	8.2
52.5°	5.3	6.0	14.0	6.2	5.6
55°	4.0	4.2	7.6	4.4	4.2
57.5°	3.1	3.3	4.0	3.3	3.1
60°	2.5	2.5	2.9	2.6	2.5
62.5°	1.8	1.8	2.0	1.8	1.8
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.7	0.9	0.9	0.9	0.9
70°	0.7	0.5	0.5	0.5	0.7
72.5°	0.5	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.2	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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