

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: P739840

Luminaire Tested: LD4D05D010-EU4DR150210IC9024-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR150210IC9024-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 587.9 lumens  
Efficiency: N/A  
Efficacy: 78.4 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
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



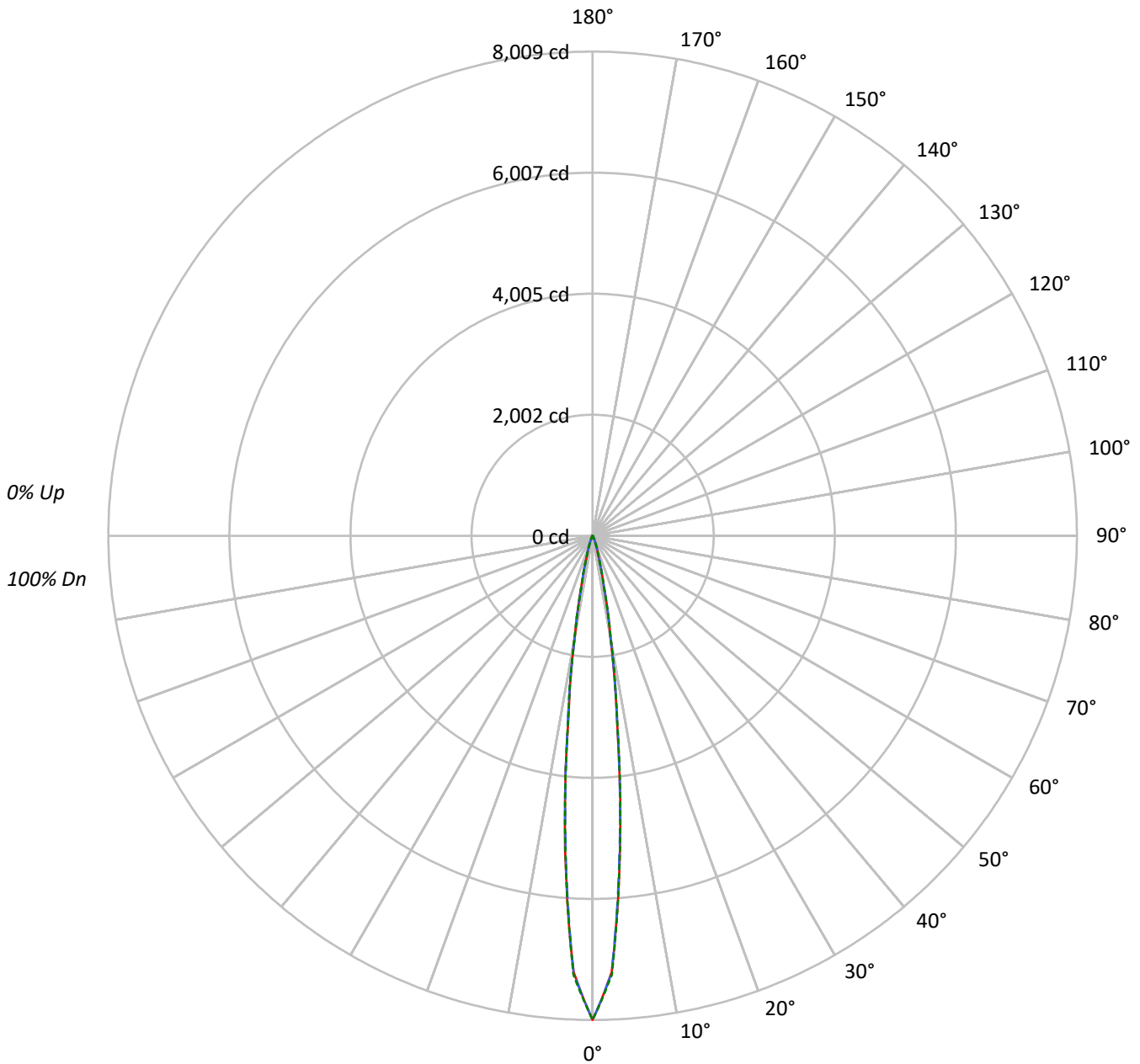
Downlight



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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	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

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

	0°	45°	90°
0°	901217	901217	901217
5°	529598	522738	526875
10°	158063	159164	161599
15°	39320	40084	38842
20°	11766	13623	12012
25°	4144	5282	4199
30°	1520	2007	1550
35°	763	864	741
40°	483	533	483
45°	357	378	357
50°	285	285	285
55°	237	237	237
60°	190	190	190
65°	143	143	143
70°	124	124	124
75°	76	76	106
80°	55	55	55
85°	25	25	25

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 378 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.3	64.9
10°-20°	156.8	26.7
20°-30°	31.1	5.3
30°-40°	7.8	1.3
40°-50°	4.1	0.7
50°-60°	3.0	0.5
60°-70°	2.1	0.4
70°-80°	1.2	0.2
80°-90°	0.4	0.1
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°	569.2	96.8
0°-40°	577.0	98.2
0°-60°	584.1	99.4
0°-90°	587.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	587.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8009	8009	8009	8009	8009	
5°	5211	5158	5144	5179	5184	381
15°	453	461	462	453	447	155
25°	53	60	68	60	54	28
35°	10	11	12	11	10	7
45°	5	5	5	5	5	4
55°	3	3	3	3	3	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
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°	8009.4	8009.4	8009.4	8009.4	8009.4
2.5°	7224.8	7230.9	7233.3	7240.4	7266.9
5°	5211.1	5157.5	5143.6	5179.2	5184.3
7.5°	3086.9	3097.7	3137.4	3146.2	3114.3
10°	1694.0	1707.9	1705.8	1718.0	1731.9
12.5°	866.3	855.5	852.1	866.0	846.6
15°	452.7	461.1	461.5	453.3	447.2
17.5°	243.4	253.3	269.6	256.3	236.0
20°	143.8	152.6	166.5	155.6	146.8
22.5°	88.8	96.0	105.8	97.3	90.2
25°	53.2	60.4	67.8	60.0	53.9
27.5°	31.5	37.6	42.4	37.3	31.2
30°	20.3	23.7	26.8	23.4	20.7
32.5°	14.2	15.6	17.0	15.6	14.2
35°	10.5	11.2	11.9	11.2	10.2
37.5°	8.1	8.8	9.2	8.5	7.8
40°	6.8	7.1	7.5	7.1	6.8
42.5°	5.8	6.1	6.1	6.1	5.8
45°	5.1	5.1	5.4	5.1	5.1
47.5°	4.4	4.4	4.7	4.4	4.4
50°	4.1	4.1	4.1	4.1	4.1
52.5°	3.7	3.7	3.7	3.7	3.7
55°	3.4	3.4	3.4	3.4	3.4
57.5°	3.1	3.1	3.1	3.1	3.1
60°	2.7	2.7	2.7	2.7	2.7
62.5°	2.4	2.4	2.4	2.4	2.4
65°	2.0	2.0	2.0	2.0	2.0
67.5°	2.0	2.0	2.0	2.0	2.0
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.0	1.0	1.0	1.0	1.4
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3
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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