

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: P743134

Luminaire Tested: LD4D15D010-EU4DR300215IC9030-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P743134  
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-EU4DR300215IC9030-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1376.9 lumens  
Efficiency: N/A  
Efficacy: 87.1 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): 15.8  
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



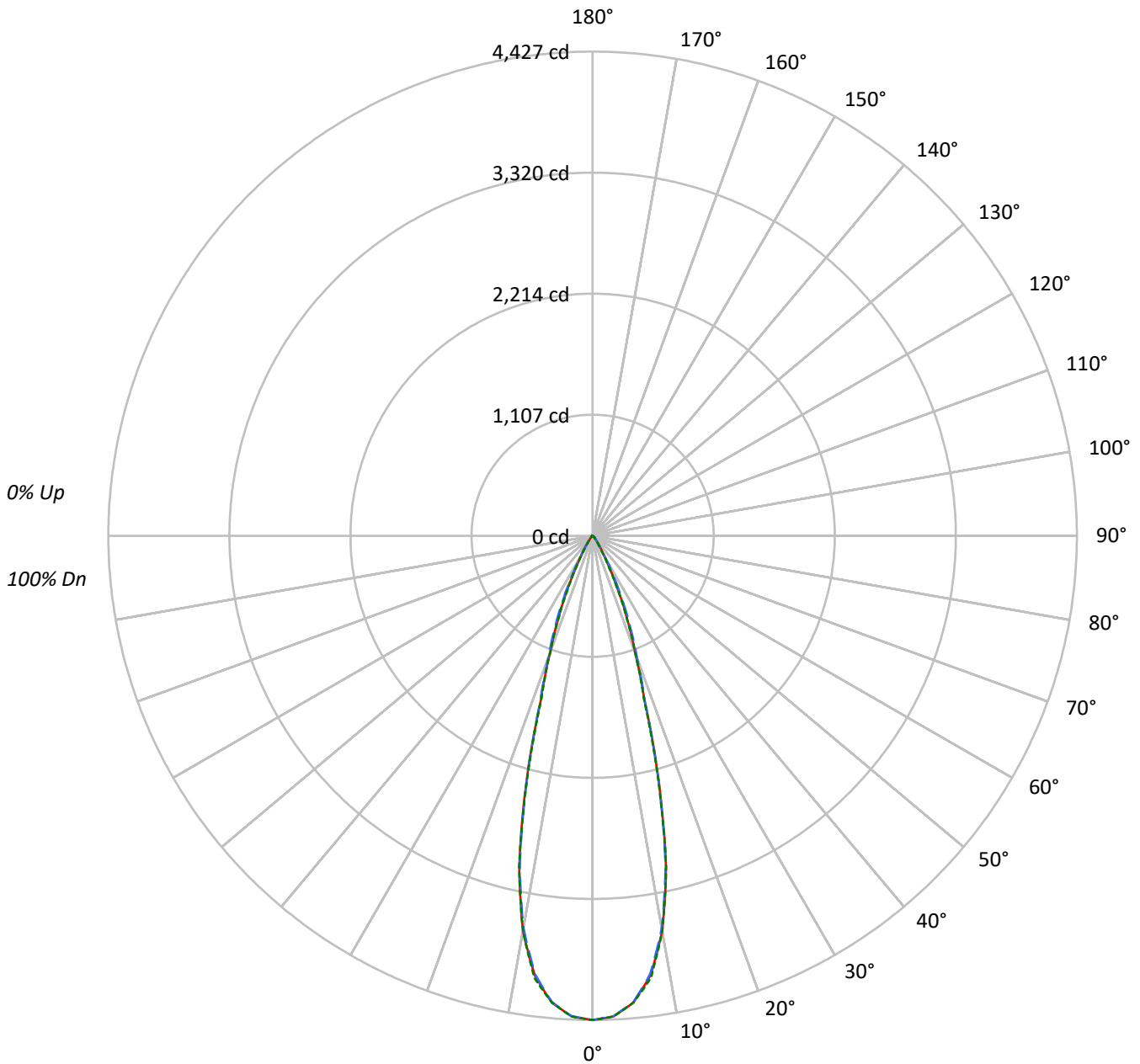
Downlight



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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°	338888	338888	338888
5°	329164	328780	329180
10°	285100	283095	285038
15°	186016	185018	184091
20°	92493	95971	92371
25°	46595	52540	45640
30°	18658	20328	16254
35°	8653	8288	6952
40°	3737	4147	3517
45°	2641	3269	2663
50°	905	2382	953
55°	520	988	547
60°	367	429	367
65°	235	235	235
70°	134	112	134
75°	0	59	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 3269 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	389.3	28.3
10°-20°	627.0	45.5
20°-30°	270.9	19.7
30°-40°	61.8	4.5
40°-50°	21.2	1.5
50°-60°	5.2	0.4
60°-70°	1.3	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°	1287.3	93.5
0°-40°	1349.0	98.0
0°-60°	1375.4	99.9
0°-90°	1376.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1376.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4427	4427	4427	4427	4427	
5°	4284	4280	4279	4288	4284	390
15°	2347	2319	2335	2327	2323	629
25°	552	572	622	558	540	264
35°	93	94	89	88	74	63
45°	24	30	30	30	25	17
55°	4	4	7	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°	4427.4	4427.4	4427.4	4427.4	4427.4
2.5°	4398.1	4395.0	4396.8	4398.9	4399.9
5°	4284.0	4279.8	4279.0	4287.9	4284.2
7.5°	4053.8	4047.9	4039.0	4059.2	4078.1
10°	3668.1	3661.7	3642.3	3651.9	3667.3
12.5°	3098.9	3077.8	3077.3	3107.8	3103.7
15°	2347.4	2319.1	2334.8	2327.2	2323.1
17.5°	1578.5	1567.7	1588.6	1582.3	1555.1
20°	1135.5	1138.4	1178.2	1158.2	1134.0
22.5°	828.6	838.9	886.0	834.5	815.6
25°	551.7	572.5	622.1	558.0	540.4
27.5°	339.3	348.9	399.1	334.9	325.4
30°	211.1	206.3	230.0	197.4	183.9
32.5°	138.5	132.4	140.0	125.6	114.8
35°	92.6	94.5	88.7	88.1	74.4
37.5°	57.8	66.5	58.7	62.6	47.8
40°	37.4	48.2	41.5	45.9	35.2
42.5°	30.7	37.2	34.1	36.3	31.3
45°	24.4	30.2	30.2	30.2	24.6
47.5°	13.5	20.2	25.8	20.6	14.3
50°	7.6	10.2	20.0	10.7	8.0
52.5°	5.2	5.8	13.7	6.1	5.4
55°	3.9	4.1	7.4	4.4	4.1
57.5°	3.0	3.3	3.9	3.3	3.0
60°	2.4	2.4	2.8	2.6	2.4
62.5°	1.7	1.7	1.9	1.7	1.7
65°	1.3	1.3	1.3	1.3	1.3
67.5°	0.6	0.9	0.9	0.9	0.9
70°	0.6	0.5	0.5	0.5	0.6
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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