

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: P755328

Luminaire Tested: LD4D90BD010-EU4DR3070959024-4LBDP1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755328  
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: LD4D90BD010-EU4DR3070959024-4LBDP1B  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5790.4 lumens  
Efficiency: N/A  
Efficacy: 58.5 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): 98.9  
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

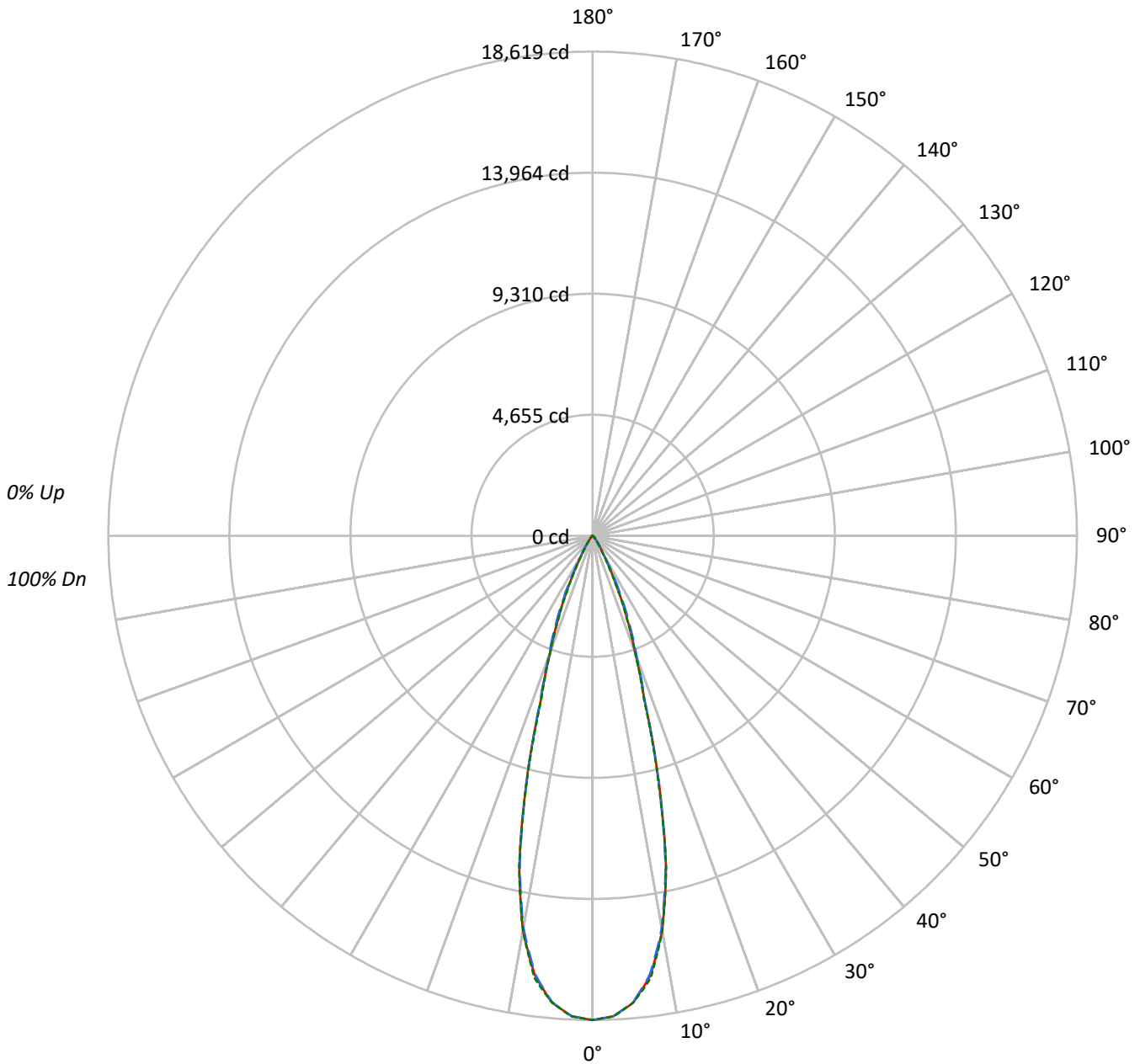


Downlight

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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°	1425139	1425139	1425139
5°	1384227	1382614	1384296
10°	1198950	1190494	1198670
15°	782261	778053	774146
20°	388976	403573	388454
25°	195939	220955	191927
30°	78450	85477	68348
35°	36386	34854	29210
40°	15707	17446	14798
45°	11085	13758	11182
50°	3811	10015	4025
55°	2202	4150	2322
60°	1546	1822	1546
65°	996	996	996
70°	604	403	604
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 13758 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1637.2	28.3
10°-20°	2636.8	45.5
20°-30°	1139.4	19.7
30°-40°	259.7	4.5
40°-50°	89.2	1.5
50°-60°	21.8	0.4
60°-70°	5.7	0.1
70°-80°	0.6	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°	5413.4	93.5
0°-40°	5673.1	98.0
0°-60°	5784.1	99.9
0°-90°	5790.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5790.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18619	18619	18619	18619	18619	
5°	18015	17998	17994	18032	18016	1639
15°	9872	9753	9818	9786	9769	2643
25°	2320	2408	2616	2346	2272	1111
35°	389	398	373	370	313	264
45°	102	127	127	127	103	73
55°	16	17	31	18	17	16
65°	6	6	6	6	6	5
75°	0	0	1	0	0	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°	18618.7	18618.7	18618.7	18618.7	18618.7
2.5°	18495.3	18482.5	18489.9	18499.0	18502.6
5°	18015.4	17998.1	17994.4	18031.9	18016.3
7.5°	17047.4	17022.7	16985.2	17070.2	17149.8
10°	15425.7	15398.3	15316.9	15357.2	15422.1
12.5°	13031.7	12943.0	12941.2	13069.1	13051.8
15°	9871.6	9752.7	9818.5	9786.5	9769.2
17.5°	6638.3	6592.6	6680.4	6653.9	6539.6
20°	4775.3	4787.2	4954.5	4870.4	4768.9
22.5°	3484.6	3527.6	3725.9	3509.3	3429.8
25°	2320.0	2407.8	2616.2	2346.5	2272.5
27.5°	1426.9	1467.2	1678.3	1408.7	1368.4
30°	887.6	867.5	967.1	830.0	773.3
32.5°	582.3	556.7	588.7	528.4	482.7
35°	389.4	397.6	373.0	370.2	312.6
37.5°	243.2	279.7	246.8	263.3	201.1
40°	157.2	202.9	174.6	192.9	148.1
42.5°	128.9	156.3	143.5	152.7	131.6
45°	102.4	127.1	127.1	127.1	103.3
47.5°	56.7	85.0	108.8	86.8	60.3
50°	32.0	43.0	84.1	44.8	33.8
52.5°	21.9	24.7	57.6	25.6	22.9
55°	16.5	17.4	31.1	18.3	17.4
57.5°	12.8	13.7	16.5	13.7	12.8
60°	10.1	10.1	11.9	11.0	10.1
62.5°	7.3	7.3	8.2	7.3	7.3
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.7	3.7	3.7	3.7	3.7
70°	2.7	1.8	1.8	1.8	2.7
72.5°	1.8	0.9	0.9	0.9	0.9
75°	0.0	0.0	0.9	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)