

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: P755347

Luminaire Tested: LD4D90BD010-EU4DR3070959027-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755347  
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-EU4DR3070959027-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9004.7 lumens  
Efficiency: N/A  
Efficacy: 91.0 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): 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

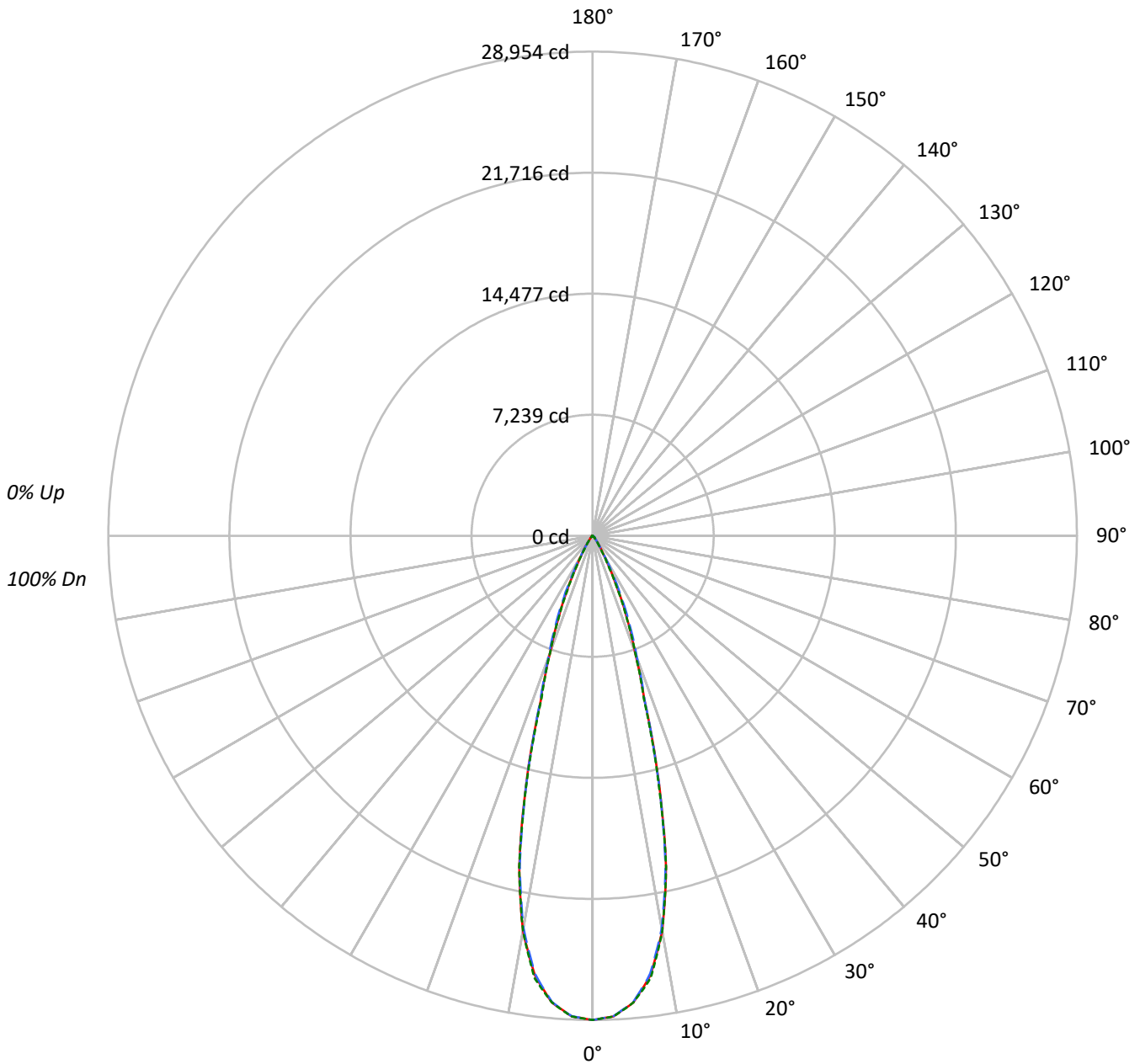


Downlight

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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	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°	2216276	2216276	2216276
5°	2152647	2150134	2152762
10°	1864518	1851375	1864083
15°	1216507	1209970	1203892
20°	604915	627609	604101
25°	304710	343610	298469
30°	121997	132931	106291
35°	56589	54196	45432
40°	24431	27128	23012
45°	17233	21390	17385
50°	5930	15576	6264
55°	3416	6446	3603
60°	2388	2832	2388
65°	1539	1539	1539
70°	962	627	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 21390 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2546.1	28.3
10°-20°	4100.5	45.5
20°-30°	1771.9	19.7
30°-40°	403.9	4.5
40°-50°	138.7	1.5
50°-60°	33.9	0.4
60°-70°	8.8	0.1
70°-80°	0.9	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°	8418.6	93.5
0°-40°	8822.4	98.0
0°-60°	8995.0	99.9
0°-90°	9004.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9004.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	28954	28954	28954	28954	28954	
5°	28016	27989	27984	28042	28018	2548
15°	15352	15167	15269	15219	15192	4111
25°	3608	3744	4068	3649	3534	1727
35°	606	618	580	576	486	411
45°	159	198	198	198	161	113
55°	26	27	48	28	27	25
65°	8	8	8	8	8	8
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°	28954.5	28954.5	28954.5	28954.5	28954.5
2.5°	28762.6	28742.7	28754.0	28768.2	28773.9
5°	28016.2	27989.2	27983.5	28041.8	28017.7
7.5°	26510.8	26472.4	26414.1	26546.3	26670.0
10°	23988.9	23946.3	23819.8	23882.3	23983.3
12.5°	20265.9	20128.0	20125.1	20324.1	20297.1
15°	15351.5	15166.7	15269.0	15219.3	15192.3
17.5°	10323.4	10252.3	10388.8	10347.6	10169.9
20°	7426.3	7444.7	7704.9	7574.1	7416.3
22.5°	5419.0	5485.8	5794.3	5457.4	5333.7
25°	3607.9	3744.4	4068.5	3649.2	3534.0
27.5°	2219.1	2281.6	2610.0	2190.6	2128.1
30°	1380.3	1349.1	1504.0	1290.8	1202.6
32.5°	905.5	865.7	915.5	821.7	750.6
35°	605.6	618.4	580.0	575.7	486.2
37.5°	378.1	435.0	383.8	409.4	312.7
40°	244.5	315.6	271.5	300.0	230.3
42.5°	200.4	243.1	223.2	237.4	204.7
45°	159.2	197.6	197.6	197.6	160.6
47.5°	88.1	132.2	169.2	135.0	93.8
50°	49.8	66.8	130.8	69.7	52.6
52.5°	34.1	38.4	89.6	39.8	35.5
55°	25.6	27.0	48.3	28.4	27.0
57.5°	19.9	21.3	25.6	21.3	19.9
60°	15.6	15.6	18.5	17.1	15.6
62.5°	11.4	11.4	12.8	11.4	11.4
65°	8.5	8.5	8.5	8.5	8.5
67.5°	4.3	5.7	5.7	5.7	5.7
70°	4.3	2.8	2.8	2.8	4.3
72.5°	2.8	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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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