

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: P755395

Luminaire Tested: LD4D90BD010-EU4DR3070959050-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P755395  
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-EU4DR3070959050-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 9388.8 lumens  
Efficiency: N/A  
Efficacy: 94.9 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

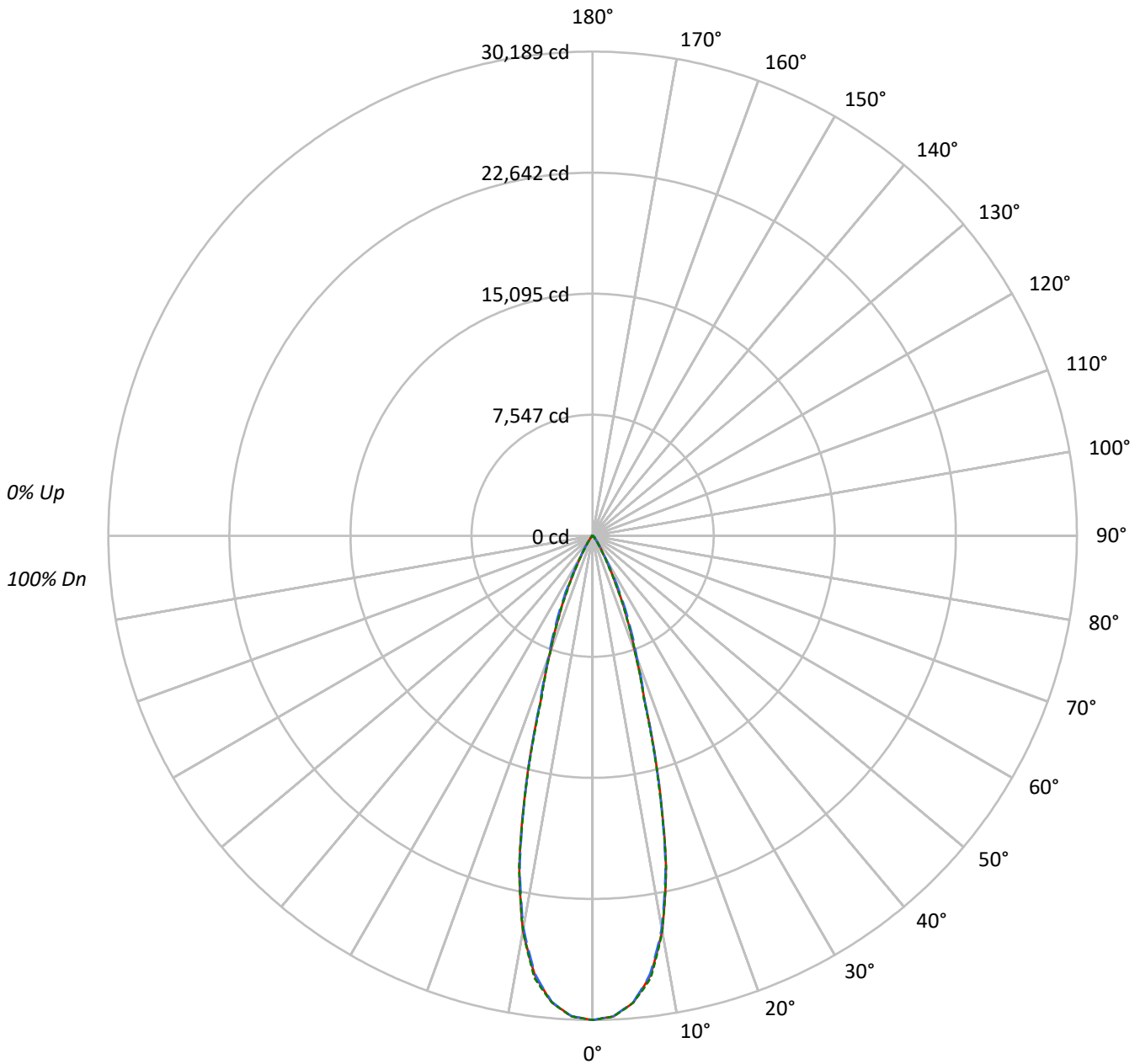
Input Watts (W): 98.9  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	2310799	2310799	2310799
5°	2244465	2241845	2244573
10°	1944045	1930335	1943587
15°	1268396	1261581	1255242
20°	630712	654375	629865
25°	317708	358272	311196
30°	127203	138605	110826
35°	58999	56505	47366
40°	25470	28287	23991
45°	17969	22299	18132
50°	6180	16243	6526
55°	3563	6726	3763
60°	2495	2955	2495
65°	1612	1612	1612
70°	985	671	985
75°	0	444	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 22299 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2654.7	28.3
10°-20°	4275.4	45.5
20°-30°	1847.5	19.7
30°-40°	421.1	4.5
40°-50°	144.6	1.5
50°-60°	35.3	0.4
60°-70°	9.2	0.1
70°-80°	1.0	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°	8777.6	93.5
0°-40°	9198.7	98.0
0°-60°	9378.6	99.9
0°-90°	9388.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9388.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	30189	30189	30189	30189	30189	
5°	29211	29183	29177	29238	29213	2657
15°	16006	15814	15920	15868	15840	4286
25°	3762	3904	4242	3805	3685	1801
35°	631	645	605	600	507	428
45°	166	206	206	206	168	118
55°	27	28	50	30	28	26
65°	9	9	9	9	9	9
75°	0	0	2	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°	30189.4	30189.4	30189.4	30189.4	30189.4
2.5°	29989.3	29968.6	29980.4	29995.2	30001.2
5°	29211.2	29183.0	29177.1	29237.8	29212.6
7.5°	27641.5	27601.5	27540.7	27678.6	27807.5
10°	25012.1	24967.6	24835.7	24900.9	25006.2
12.5°	21130.2	20986.4	20983.5	21191.0	21162.8
15°	16006.3	15813.6	15920.3	15868.4	15840.3
17.5°	10763.7	10689.6	10831.9	10788.9	10603.6
20°	7743.0	7762.3	8033.5	7897.2	7732.6
22.5°	5650.1	5719.8	6041.4	5690.2	5561.2
25°	3761.8	3904.1	4242.1	3804.8	3684.7
27.5°	2313.7	2378.9	2721.3	2284.1	2218.9
30°	1439.2	1406.6	1568.2	1345.8	1253.9
32.5°	944.2	902.7	954.5	856.7	782.6
35°	631.4	644.8	604.7	600.3	506.9
37.5°	394.3	453.6	400.2	426.9	326.1
40°	254.9	329.0	283.1	312.7	240.1
42.5°	209.0	253.5	232.7	247.5	213.4
45°	166.0	206.0	206.0	206.0	167.5
47.5°	91.9	137.8	176.4	140.8	97.8
50°	51.9	69.7	136.4	72.6	54.8
52.5°	35.6	40.0	93.4	41.5	37.1
55°	26.7	28.2	50.4	29.6	28.2
57.5°	20.8	22.2	26.7	22.2	20.8
60°	16.3	16.3	19.3	17.8	16.3
62.5°	11.9	11.9	13.3	11.9	11.9
65°	8.9	8.9	8.9	8.9	8.9
67.5°	4.4	5.9	5.9	5.9	5.9
70°	4.4	3.0	3.0	3.0	4.4
72.5°	3.0	1.5	1.5	1.5	1.5
75°	0.0	0.0	1.5	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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