

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: P749922

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749922  
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: LD4D55D010-EU4DR3055659040-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5934.4 lumens  
Efficiency: N/A  
Efficacy: 102.0 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

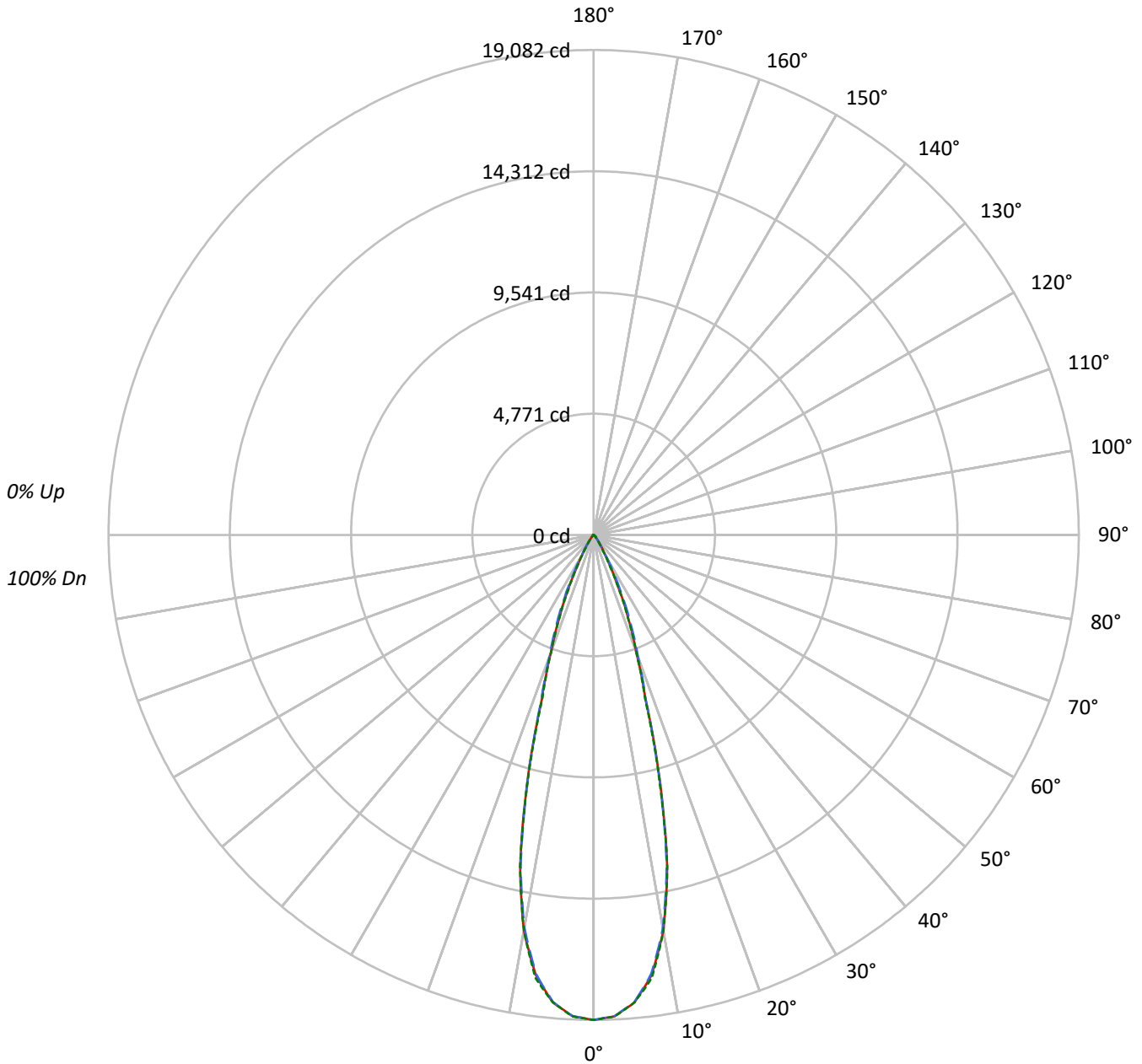
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1460601	1460601	1460601
5°	1418673	1417013	1418742
10°	1228789	1220122	1228493
15°	801723	797412	793402
20°	398661	413616	398123
25°	200820	226453	196699
30°	80404	87607	70054
35°	37293	35714	29939
40°	16097	17876	15168
45°	11355	14094	11464
50°	3906	10265	4132
55°	2255	4257	2375
60°	1577	1868	1577
65°	1014	1014	1014
70°	627	425	627
75°	0	266	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 14094 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1678.0	28.3
10°-20°	2702.4	45.5
20°-30°	1167.8	19.7
30°-40°	266.2	4.5
40°-50°	91.4	1.5
50°-60°	22.3	0.4
60°-70°	5.8	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°	5548.1	93.5
0°-40°	5814.3	98.0
0°-60°	5928.0	99.9
0°-90°	5934.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5934.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19082	19082	19082	19082	19082	
5°	18464	18446	18442	18480	18465	1679
15°	10117	9995	10063	10030	10012	2709
25°	2378	2468	2681	2405	2329	1138
35°	399	408	382	379	320	271
45°	105	130	130	130	106	74
55°	17	18	32	19	18	16
65°	6	6	6	6	6	6
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°	19082.0	19082.0	19082.0	19082.0	19082.0
2.5°	18955.5	18942.4	18949.9	18959.3	18963.0
5°	18463.7	18445.9	18442.1	18480.5	18464.6
7.5°	17471.5	17446.2	17407.8	17495.0	17576.5
10°	15809.6	15781.4	15698.1	15739.3	15805.8
12.5°	13355.9	13265.0	13263.2	13394.3	13376.5
15°	10117.2	9995.4	10062.8	10030.0	10012.2
17.5°	6803.5	6756.7	6846.6	6819.4	6702.3
20°	4894.2	4906.3	5077.8	4991.6	4887.6
22.5°	3571.3	3615.4	3818.7	3596.6	3515.1
25°	2377.8	2467.7	2681.3	2404.9	2329.0
27.5°	1462.4	1503.7	1720.1	1443.7	1402.5
30°	909.7	889.1	991.2	850.7	792.6
32.5°	596.8	570.5	603.3	541.5	494.7
35°	399.1	407.5	382.2	379.4	320.4
37.5°	249.2	286.7	253.0	269.8	206.1
40°	161.1	208.0	178.9	197.7	151.8
42.5°	132.1	160.2	147.1	156.5	134.9
45°	104.9	130.2	130.2	130.2	105.9
47.5°	58.1	87.1	111.5	89.0	61.8
50°	32.8	44.0	86.2	45.9	34.7
52.5°	22.5	25.3	59.0	26.2	23.4
55°	16.9	17.8	31.9	18.7	17.8
57.5°	13.1	14.1	16.9	14.1	13.1
60°	10.3	10.3	12.2	11.2	10.3
62.5°	7.5	7.5	8.4	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.9	1.9	1.9	2.8
72.5°	1.9	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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