

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: P749925

Luminaire Tested: LD4D55D010-EU4DR3055659040-4LBS1H

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749925  
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-EU4DR3055659040-4LBS1H  
Description: 4 INCH ROUND SHALLOW SEMI-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: 5949.3 lumens  
Efficiency: N/A  
Efficacy: 102.2 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

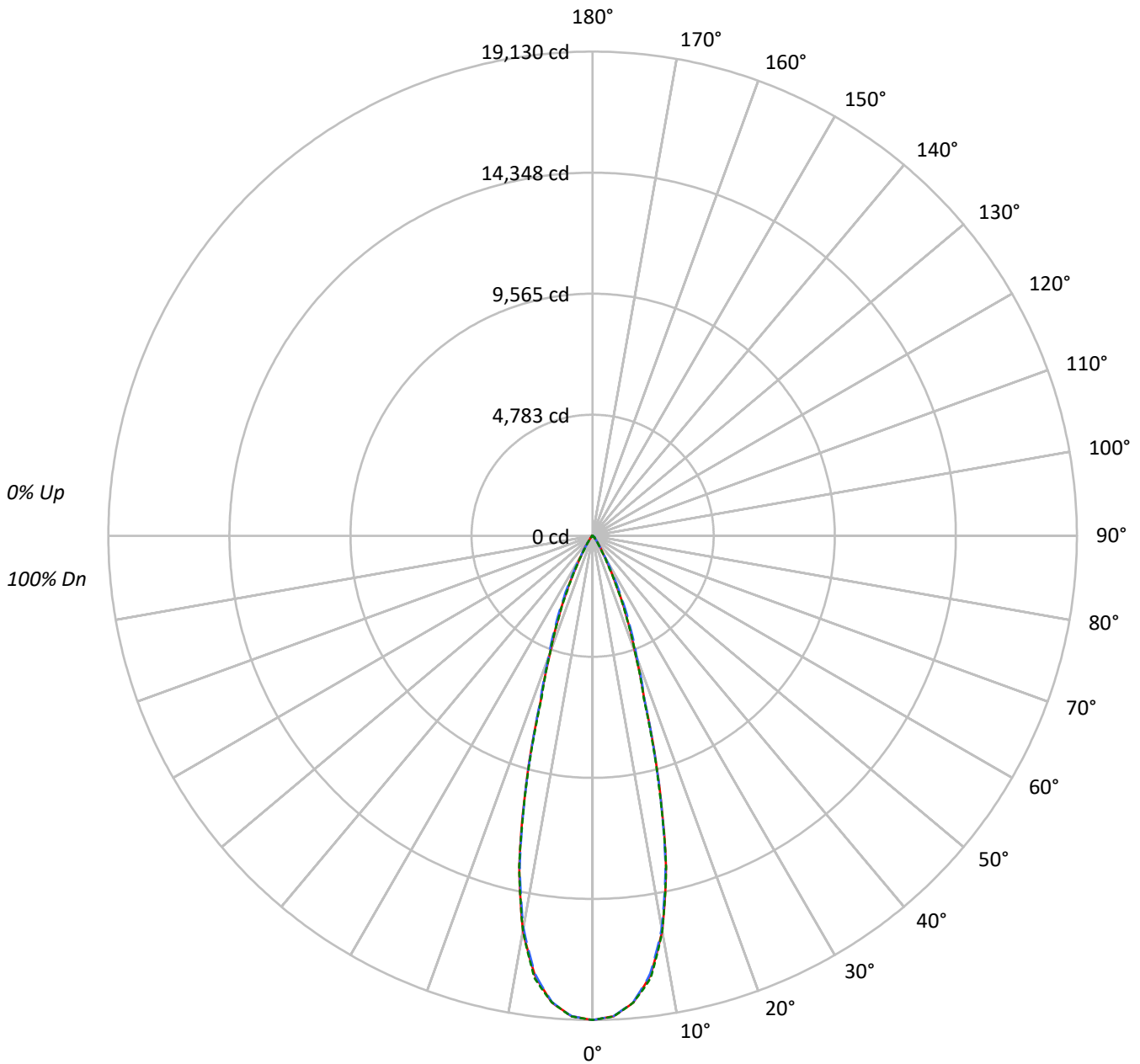
Input Watts (W): 58.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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	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°	1464260	1464260	1464260
5°	1422230	1420571	1422299
10°	1231866	1223177	1231571
15°	803728	799417	795391
20°	399655	414651	399125
25°	201318	227019	197197
30°	80607	87828	70230
35°	37386	35807	30014
40°	16137	17926	15208
45°	11388	14137	11485
50°	3918	10289	4144
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: 14137 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1682.2	28.3
10°-20°	2709.2	45.5
20°-30°	1170.7	19.7
30°-40°	266.8	4.5
40°-50°	91.6	1.5
50°-60°	22.4	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°	5562.0	93.5
0°-40°	5828.9	98.0
0°-60°	5942.9	99.9
0°-90°	5949.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5949.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19130	19130	19130	19130	19130	
5°	18510	18492	18488	18527	18511	1684
15°	10142	10020	10088	10055	10037	2716
25°	2384	2474	2688	2411	2335	1141
35°	400	409	383	380	321	271
45°	105	131	131	131	106	75
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°	19129.8	19129.8	19129.8	19129.8	19129.8
2.5°	19003.0	18989.9	18997.4	19006.8	19010.6
5°	18510.0	18492.1	18488.4	18526.9	18510.9
7.5°	17515.3	17490.0	17451.5	17538.8	17620.5
10°	15849.2	15821.0	15737.4	15778.7	15845.4
12.5°	13389.4	13298.3	13296.4	13427.9	13410.0
15°	10142.5	10020.4	10088.1	10055.2	10037.3
17.5°	6820.5	6773.6	6863.7	6836.5	6719.1
20°	4906.4	4918.6	5090.5	5004.1	4899.9
22.5°	3580.3	3624.4	3828.2	3605.6	3523.9
25°	2383.7	2473.9	2688.0	2411.0	2334.9
27.5°	1466.1	1507.4	1724.4	1447.3	1406.0
30°	912.0	891.3	993.7	852.8	794.6
32.5°	598.3	572.0	604.9	542.9	495.9
35°	400.1	408.6	383.2	380.4	321.2
37.5°	249.8	287.4	253.6	270.5	206.6
40°	161.5	208.5	179.4	198.2	152.2
42.5°	132.4	160.6	147.5	156.8	135.2
45°	105.2	130.6	130.6	130.6	106.1
47.5°	58.2	87.3	111.8	89.2	62.0
50°	32.9	44.1	86.4	46.0	34.8
52.5°	22.5	25.4	59.2	26.3	23.5
55°	16.9	17.8	31.9	18.8	17.8
57.5°	13.1	14.1	16.9	14.1	13.1
60°	10.3	10.3	12.2	11.3	10.3
62.5°	7.5	7.5	8.5	7.5	7.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	2.8	3.8	3.8	3.8	3.8
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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