

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269



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: P749935

Luminaire Tested: LD4D55D010-EU4DR3055659050-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P749935  
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-EU4DR3055659050-4LBDP1LI  
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: 5976.8 lumens  
Efficiency: N/A  
Efficacy: 102.7 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

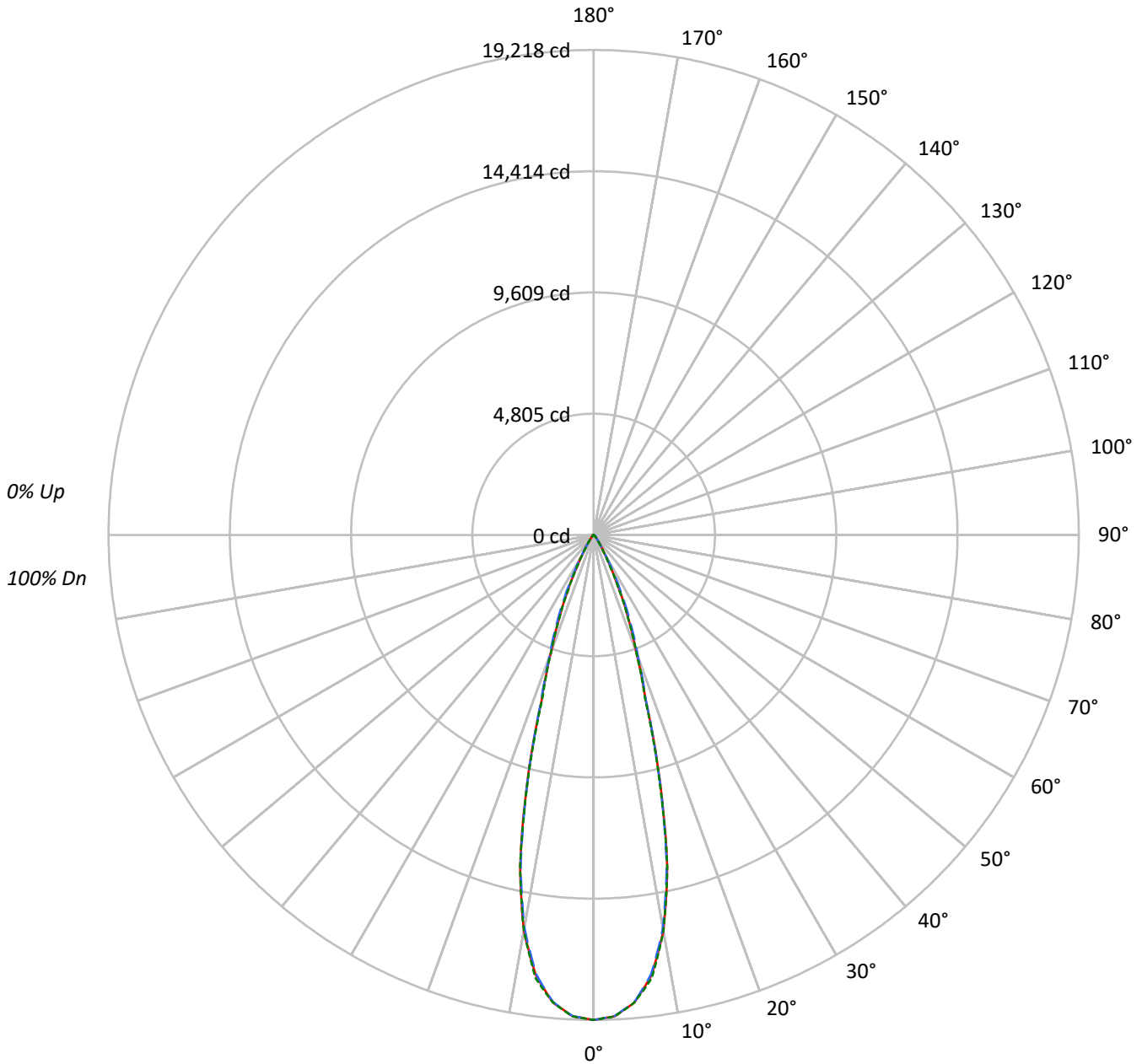


Downlight

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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°	1471034	1471034	1471034
5°	1428807	1427140	1428877
10°	1237564	1228835	1237268
15°	807444	803110	799076
20°	401504	416573	400966
25°	202247	228074	198109
30°	80978	88234	70549
35°	37564	35975	30154
40°	16217	18006	15278
45°	11442	14202	11539
50°	3930	10336	4156
55°	2269	4284	2389
60°	1592	1883	1592
65°	1032	1032	1032
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: 14202 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1690.0	28.3
10°-20°	2721.7	45.5
20°-30°	1176.1	19.7
30°-40°	268.1	4.5
40°-50°	92.0	1.5
50°-60°	22.5	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°	5587.8	93.5
0°-40°	5855.8	98.0
0°-60°	5970.4	99.9
0°-90°	5976.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5976.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19218	19218	19218	19218	19218	
5°	18596	18578	18574	18612	18596	1691
15°	10189	10067	10135	10102	10084	2728
25°	2395	2485	2700	2422	2346	1146
35°	402	410	385	382	323	273
45°	106	131	131	131	107	75
55°	17	18	32	19	18	17
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°	19218.3	19218.3	19218.3	19218.3	19218.3
2.5°	19090.9	19077.7	19085.3	19094.7	19098.5
5°	18595.6	18577.6	18573.9	18612.5	18596.5
7.5°	17596.3	17570.9	17532.2	17619.9	17702.0
10°	15922.5	15894.2	15810.2	15851.7	15918.7
12.5°	13451.3	13359.8	13357.9	13490.0	13472.1
15°	10189.4	10066.8	10134.7	10101.7	10083.8
17.5°	6852.1	6804.9	6895.5	6868.1	6750.2
20°	4929.1	4941.4	5114.1	5027.3	4922.5
22.5°	3596.8	3641.2	3845.9	3622.3	3540.2
25°	2394.7	2485.3	2700.5	2422.1	2345.7
27.5°	1472.9	1514.4	1732.4	1454.0	1412.5
30°	916.2	895.4	998.3	856.7	798.2
32.5°	601.0	574.6	607.6	545.4	498.2
35°	402.0	410.4	385.0	382.1	322.7
37.5°	251.0	288.7	254.8	271.7	207.6
40°	162.3	209.5	180.2	199.1	152.9
42.5°	133.0	161.3	148.1	157.6	135.9
45°	105.7	131.2	131.2	131.2	106.6
47.5°	58.5	87.8	112.3	89.6	62.3
50°	33.0	44.3	86.8	46.2	34.9
52.5°	22.6	25.5	59.4	26.4	23.6
55°	17.0	17.9	32.1	18.9	17.9
57.5°	13.2	14.2	17.0	14.2	13.2
60°	10.4	10.4	12.3	11.3	10.4
62.5°	7.5	7.5	8.5	7.5	7.5
65°	5.7	5.7	5.7	5.7	5.7
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

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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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(END OF REPORT)