

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: P751495

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751495  
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: LD4D65D010-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: 7268.9 lumens  
Efficiency: N/A  
Efficacy: 99.8 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

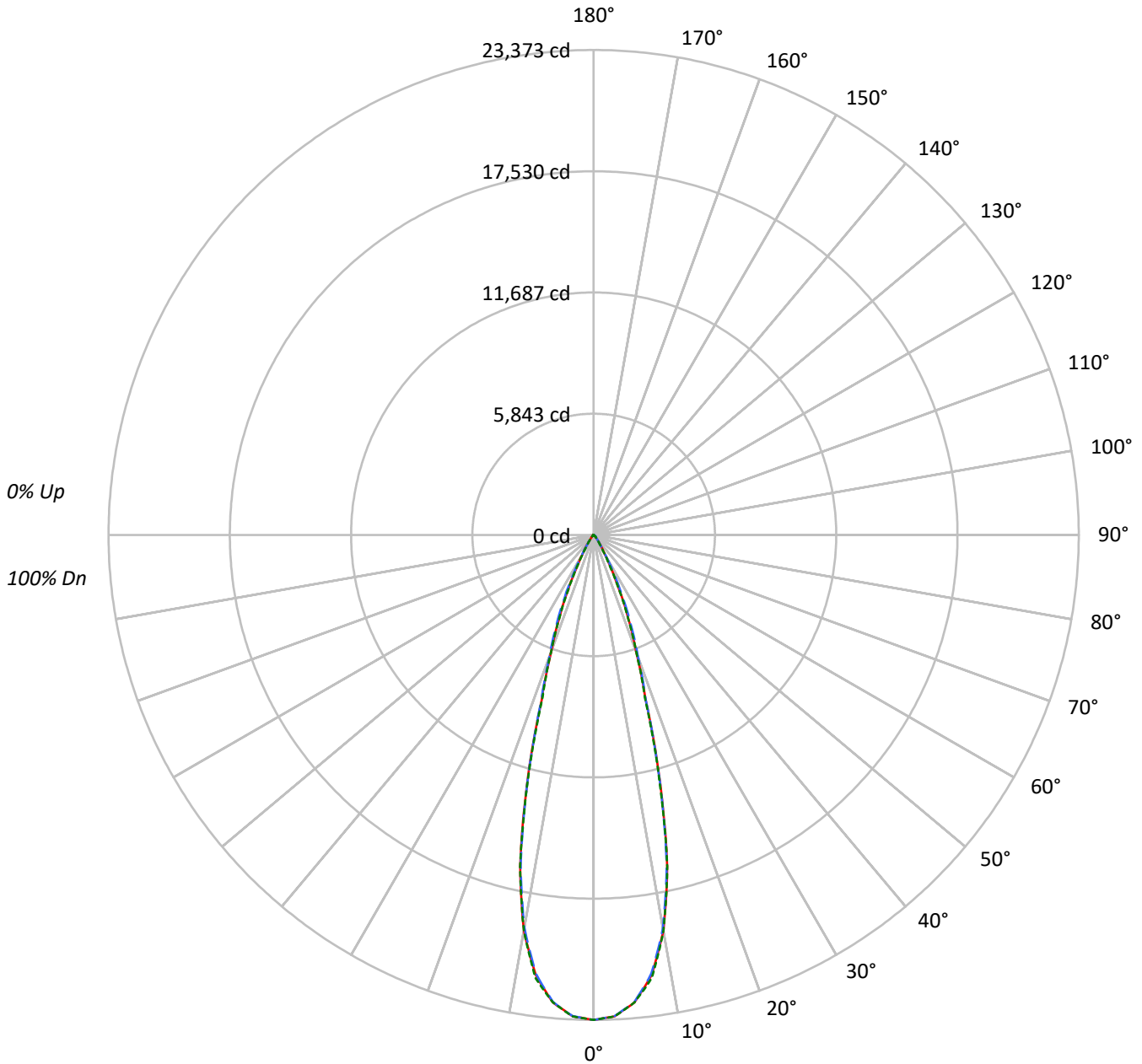
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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°	1789049	1789049	1789049
5°	1737687	1735659	1737779
10°	1505106	1494489	1504748
15°	982002	976732	971819
20°	488303	506622	487651
25°	245971	277371	240937
30°	98487	107308	85804
35°	45684	43750	36676
40°	19724	21903	18575
45°	13910	17266	14040
50°	4787	12575	5061
55°	2762	5205	2909
60°	1929	2281	1929
65°	1250	1250	1250
70°	761	515	761
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 17266 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2055.3	28.3
10°-20°	3310.1	45.5
20°-30°	1430.4	19.7
30°-40°	326.0	4.5
40°-50°	111.9	1.5
50°-60°	27.3	0.4
60°-70°	7.1	0.1
70°-80°	0.7	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°	6795.8	93.5
0°-40°	7121.8	98.0
0°-60°	7261.1	99.9
0°-90°	7268.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7268.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	23373	23373	23373	23373	23373	
5°	22616	22594	22589	22636	22617	2057
15°	12392	12243	12326	12286	12264	3318
25°	2912	3023	3284	2946	2853	1394
35°	489	499	468	465	392	332
45°	128	160	160	160	130	91
55°	21	22	39	23	22	20
65°	7	7	7	7	7	7
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°	23373.0	23373.0	23373.0	23373.0	23373.0
2.5°	23218.1	23202.0	23211.2	23222.7	23227.3
5°	22615.6	22593.8	22589.2	22636.3	22616.8
7.5°	21400.4	21369.4	21322.4	21429.1	21528.9
10°	19364.7	19330.2	19228.1	19278.6	19360.1
12.5°	16359.3	16248.0	16245.7	16406.3	16384.5
15°	12392.2	12243.1	12325.7	12285.5	12263.7
17.5°	8333.4	8276.0	8386.2	8352.9	8209.5
20°	5994.7	6009.6	6219.6	6114.1	5986.7
22.5°	4374.4	4428.3	4677.4	4405.4	4305.6
25°	2912.4	3022.6	3284.2	2945.7	2852.8
27.5°	1791.3	1841.8	2106.9	1768.4	1717.9
30°	1114.3	1089.0	1214.1	1042.0	970.8
32.5°	731.0	698.8	739.0	663.3	605.9
35°	488.9	499.2	468.2	464.8	392.5
37.5°	305.2	351.1	309.8	330.5	252.5
40°	197.4	254.8	219.2	242.1	185.9
42.5°	161.8	196.2	180.2	191.6	165.2
45°	128.5	159.5	159.5	159.5	129.7
47.5°	71.1	106.7	136.6	109.0	75.7
50°	40.2	53.9	105.6	56.2	42.5
52.5°	27.5	31.0	72.3	32.1	28.7
55°	20.7	21.8	39.0	23.0	21.8
57.5°	16.1	17.2	20.7	17.2	16.1
60°	12.6	12.6	14.9	13.8	12.6
62.5°	9.2	9.2	10.3	9.2	9.2
65°	6.9	6.9	6.9	6.9	6.9
67.5°	3.4	4.6	4.6	4.6	4.6
70°	3.4	2.3	2.3	2.3	3.4
72.5°	2.3	1.1	1.1	1.1	1.1
75°	0.0	0.0	1.1	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



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Scaled Data Report







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

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(END OF REPORT)