

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: P751502

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751502  
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-EU4DR3055659050-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5820.2 lumens  
Efficiency: N/A  
Efficacy: 79.9 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

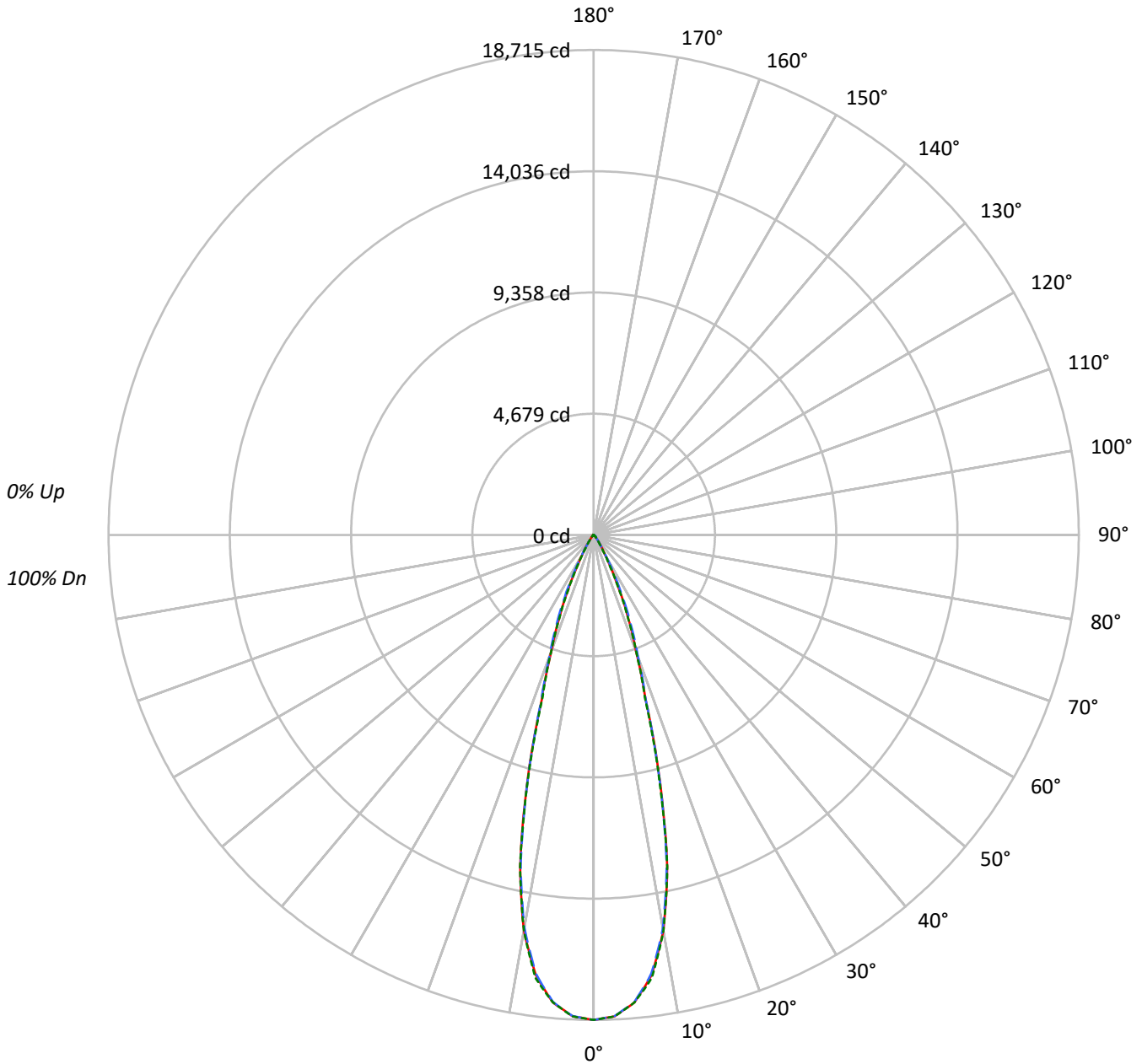
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P751502

CATALOG NUMBER: LD4D65D010-EU4DR3055659050-4LBSQW1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P751502

CATALOG NUMBER: LD4D65D010-EU4DR3055659050-4LBSQW1MW

**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°	1432502	1432502	1432502
5°	1391381	1389752	1391450
10°	1205145	1196650	1204857
15°	786294	782070	778140
20°	390988	405658	390466
25°	196952	222095	192915
30°	78857	85919	68701
35°	36573	35031	29360
40°	15787	17536	14878
45°	11139	13823	11236
50°	3834	10062	4049
55°	2202	4164	2335
60°	1546	1822	1546
65°	996	996	996
70°	627	403	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: 13823 cd/sqm



TEST NUMBER: P751502

CATALOG NUMBER: LD4D65D010-EU4DR3055659050-4LBSQW1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1645.7	28.3
10°-20°	2650.4	45.5
20°-30°	1145.3	19.7
30°-40°	261.0	4.5
40°-50°	89.6	1.5
50°-60°	21.9	0.4
60°-70°	5.7	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°	5441.4	93.5
0°-40°	5702.4	98.0
0°-60°	5814.0	99.9
0°-90°	5820.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5820.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	18715	18715	18715	18715	18715	
5°	18108	18091	18087	18125	18109	1647
15°	9922	9803	9869	9837	9820	2657
25°	2332	2420	2630	2359	2284	1116
35°	391	400	375	372	314	265
45°	103	128	128	128	104	73
55°	16	18	31	18	18	16
65°	6	6	6	6	6	5
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P751502

CATALOG NUMBER: LD4D65D010-EU4DR3055659050-4LBSQW1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	18714.9	18714.9	18714.9	18714.9	18714.9
2.5°	18590.9	18578.0	18585.3	18594.5	18598.2
5°	18108.5	18091.0	18087.3	18125.0	18109.4
7.5°	17135.4	17110.6	17072.9	17158.4	17238.3
10°	15505.4	15477.8	15396.1	15436.5	15501.7
12.5°	13099.0	13009.8	13008.0	13136.6	13119.2
15°	9922.5	9803.1	9869.2	9837.1	9819.6
17.5°	6672.6	6626.7	6714.9	6688.2	6573.4
20°	4800.0	4812.0	4980.1	4895.6	4793.6
22.5°	3502.6	3545.8	3745.2	3527.4	3447.5
25°	2332.0	2420.2	2629.7	2358.7	2284.2
27.5°	1434.3	1474.7	1687.0	1415.9	1375.5
30°	892.2	872.0	972.1	834.3	777.3
32.5°	585.3	559.6	591.7	531.1	485.1
35°	391.4	399.7	374.9	372.1	314.2
37.5°	244.4	281.2	248.1	264.6	202.1
40°	158.0	204.0	175.5	193.9	148.9
42.5°	129.6	157.1	144.3	153.4	132.3
45°	102.9	127.7	127.7	127.7	103.8
47.5°	57.0	85.5	109.3	87.3	60.6
50°	32.2	43.2	84.5	45.0	34.0
52.5°	22.1	24.8	57.9	25.7	23.0
55°	16.5	17.5	31.2	18.4	17.5
57.5°	12.9	13.8	16.5	13.8	12.9
60°	10.1	10.1	11.9	11.0	10.1
62.5°	7.4	7.4	8.3	7.4	7.4
65°	5.5	5.5	5.5	5.5	5.5
67.5°	2.8	3.7	3.7	3.7	3.7
70°	2.8	1.8	1.8	1.8	2.8
72.5°	1.8	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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

Scaled Data Report







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

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

Scaled Data Report



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

Scaled Data Report



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

Scaled Data Report



(END OF REPORT)