

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: P751456

Luminaire Tested: LD4D65D010-EU4DR3055659030-4LBDP1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751456  
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-EU4DR3055659030-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6823.1 lumens  
Efficiency: N/A  
Efficacy: 93.7 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

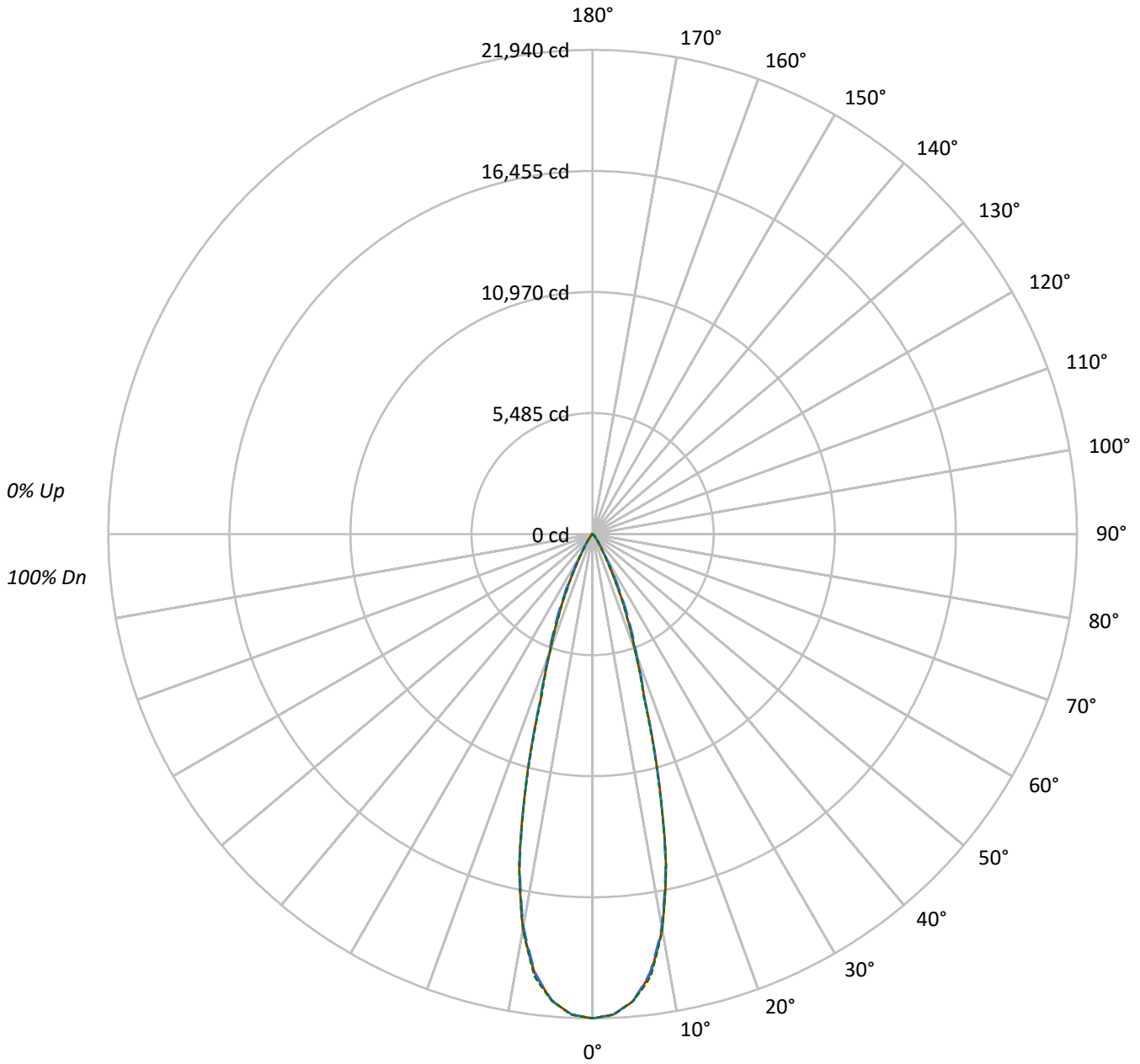
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P751456  
CATALOG NUMBER: LD4D65D010-EU4DR3055659030-4LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P751456

CATALOG NUMBER: LD4D65D010-EU4DR3055659030-4LBDP1LI

**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						100													
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96						96													
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92						92													
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89						89													
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85						85													
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83	82						82													
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79						79													
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77						77													
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74						74													
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72						72													
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69						69													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1679331	1679331	1679331
5°	1631124	1629218	1631208
10°	1412801	1402836	1412466
15°	921785	916832	912220
20°	458360	475555	457749
25°	230887	260362	226157
30°	92442	100723	80545
35°	42881	41068	34424
40°	18515	20554	17436
45°	13055	16205	13174
50°	4489	11801	4751
55°	2589	4884	2736
60°	1806	2143	1806
65°	1177	1177	1177
70°	716	492	716
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 16205 cd/sqm



TEST NUMBER: P751456

CATALOG NUMBER: LD4D65D010-EU4DR3055659030-4LBDP1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1929.3	28.3
10°-20°	3107.1	45.5
20°-30°	1342.7	19.7
30°-40°	306.0	4.5
40°-50°	105.1	1.5
50°-60°	25.7	0.4
60°-70°	6.7	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°	6379.0	93.5
0°-40°	6685.0	98.0
0°-60°	6815.8	99.9
0°-90°	6823.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6823.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	21940	21940	21940	21940	21940	
5°	21229	21208	21204	21248	21230	1931
15°	11632	11492	11570	11532	11512	3115
25°	2734	2837	3083	2765	2678	1309
35°	459	469	440	436	368	311
45°	121	150	150	150	122	86
55°	19	20	37	22	20	19
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



TEST NUMBER: P751456

CATALOG NUMBER: LD4D65D010-EU4DR3055659030-4LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	21939.6	21939.6	21939.6	21939.6	21939.6
2.5°	21794.2	21779.1	21787.7	21798.5	21802.8
5°	21228.7	21208.2	21203.9	21248.1	21229.8
7.5°	20088.0	20058.9	20014.7	20114.9	20208.6
10°	18177.1	18144.8	18048.9	18096.3	18172.8
12.5°	15356.0	15251.5	15249.4	15400.2	15379.7
15°	11632.3	11492.2	11569.8	11532.1	11511.6
17.5°	7822.3	7768.5	7871.9	7840.7	7706.0
20°	5627.1	5641.1	5838.2	5739.1	5619.6
22.5°	4106.1	4156.8	4390.5	4135.2	4041.5
25°	2733.8	2837.2	3082.8	2765.1	2677.8
27.5°	1681.4	1728.8	1977.7	1659.9	1612.5
30°	1045.9	1022.2	1139.6	978.1	911.3
32.5°	686.2	656.0	693.7	622.6	568.7
35°	458.9	468.6	439.5	436.3	368.4
37.5°	286.5	329.6	290.8	310.2	237.0
40°	185.3	239.1	205.7	227.3	174.5
42.5°	151.9	184.2	169.1	179.9	155.1
45°	120.6	149.7	149.7	149.7	121.7
47.5°	66.8	100.2	128.2	102.3	71.1
50°	37.7	50.6	99.1	52.8	39.9
52.5°	25.9	29.1	67.9	30.2	26.9
55°	19.4	20.5	36.6	21.5	20.5
57.5°	15.1	16.2	19.4	16.2	15.1
60°	11.8	11.8	14.0	12.9	11.8
62.5°	8.6	8.6	9.7	8.6	8.6
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.2	4.3	4.3	4.3	4.3
70°	3.2	2.2	2.2	2.2	3.2
72.5°	2.2	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

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)