

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: P751487

Luminaire Tested: LD4D65D010-EU4DR3055659040-4LBS1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751487  
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-EU4DR3055659040-4LBS1MW  
Description: 4 INCH ROUND SHALLOW MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6877.6 lumens  
Efficiency: N/A  
Efficacy: 94.5 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

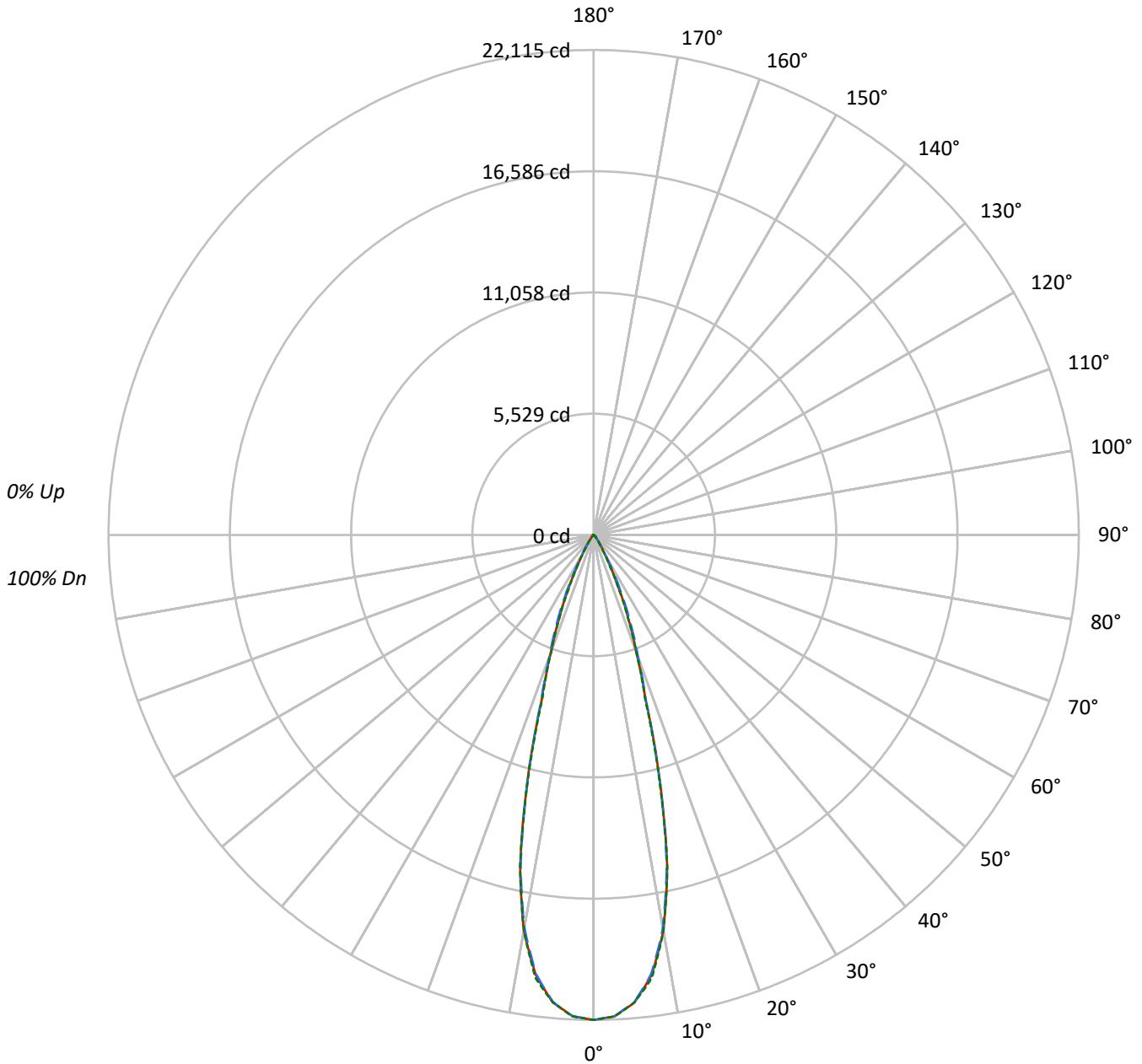
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P751487  
CATALOG NUMBER: LD4D65D010-EU4DR3055659040-4LBS1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P751487

CATALOG NUMBER: LD4D65D010-EU4DR3055659040-4LBS1MW

**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°	1692757	1692757	1692757
5°	1644163	1642242	1644240
10°	1424094	1414052	1423752
15°	929147	924162	919511
20°	462025	479359	461406
25°	232736	262448	227964
30°	93184	101528	81190
35°	43217	41395	34695
40°	18665	20723	17576
45°	13163	16335	13282
50°	4525	11896	4787
55°	2602	4924	2749
60°	1822	2159	1822
65°	1177	1177	1177
70°	739	492	739
75°	0	325	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 16335 cd/sqm



TEST NUMBER: P751487

CATALOG NUMBER: LD4D65D010-EU4DR3055659040-4LBS1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1944.7	28.3
10°-20°	3131.9	45.5
20°-30°	1353.4	19.7
30°-40°	308.5	4.5
40°-50°	105.9	1.5
50°-60°	25.9	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°	6430.0	93.5
0°-40°	6738.4	98.0
0°-60°	6870.2	99.9
0°-90°	6877.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6877.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22115	22115	22115	22115	22115	
5°	21398	21378	21373	21418	21399	1946
15°	11725	11584	11662	11624	11604	3140
25°	2756	2860	3108	2787	2699	1319
35°	462	472	443	440	371	314
45°	122	151	151	151	123	86
55°	20	21	37	22	21	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: P751487

CATALOG NUMBER: LD4D65D010-EU4DR3055659040-4LBS1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22115.0	22115.0	22115.0	22115.0	22115.0
2.5°	21968.4	21953.2	21961.9	21972.7	21977.1
5°	21398.4	21377.7	21373.4	21417.9	21399.4
7.5°	20248.5	20219.2	20174.7	20275.7	20370.1
10°	18322.4	18289.8	18193.2	18240.9	18318.0
12.5°	15478.7	15373.4	15371.2	15523.3	15502.6
15°	11725.2	11584.1	11662.3	11624.3	11603.6
17.5°	7884.9	7830.6	7934.8	7903.3	7767.6
20°	5672.1	5686.2	5884.9	5785.0	5664.5
22.5°	4139.0	4190.0	4425.6	4168.3	4073.8
25°	2755.7	2859.9	3107.5	2787.2	2699.2
27.5°	1694.9	1742.7	1993.5	1673.2	1625.4
30°	1054.3	1030.4	1148.7	985.9	918.6
32.5°	691.6	661.2	699.2	627.6	573.3
35°	462.5	472.3	443.0	439.7	371.3
37.5°	288.8	332.2	293.2	312.7	238.9
40°	186.8	241.0	207.4	229.1	175.9
42.5°	153.1	185.7	170.5	181.3	156.4
45°	121.6	150.9	150.9	150.9	122.7
47.5°	67.3	101.0	129.2	103.1	71.7
50°	38.0	51.0	99.9	53.2	40.2
52.5°	26.1	29.3	68.4	30.4	27.1
55°	19.5	20.6	36.9	21.7	20.6
57.5°	15.2	16.3	19.5	16.3	15.2
60°	11.9	11.9	14.1	13.0	11.9
62.5°	8.7	8.7	9.8	8.7	8.7
65°	6.5	6.5	6.5	6.5	6.5
67.5°	3.3	4.3	4.3	4.3	4.3
70°	3.3	2.2	2.2	2.2	3.3
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)