

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: P751496

Luminaire Tested: LD4D65D010-EU4DR3055659050-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751496  
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-EU4DR3055659050-4LBDP1MW  
Description: 4 INCH ROUND 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: 6175.4 lumens  
Efficiency: N/A  
Efficacy: 84.8 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

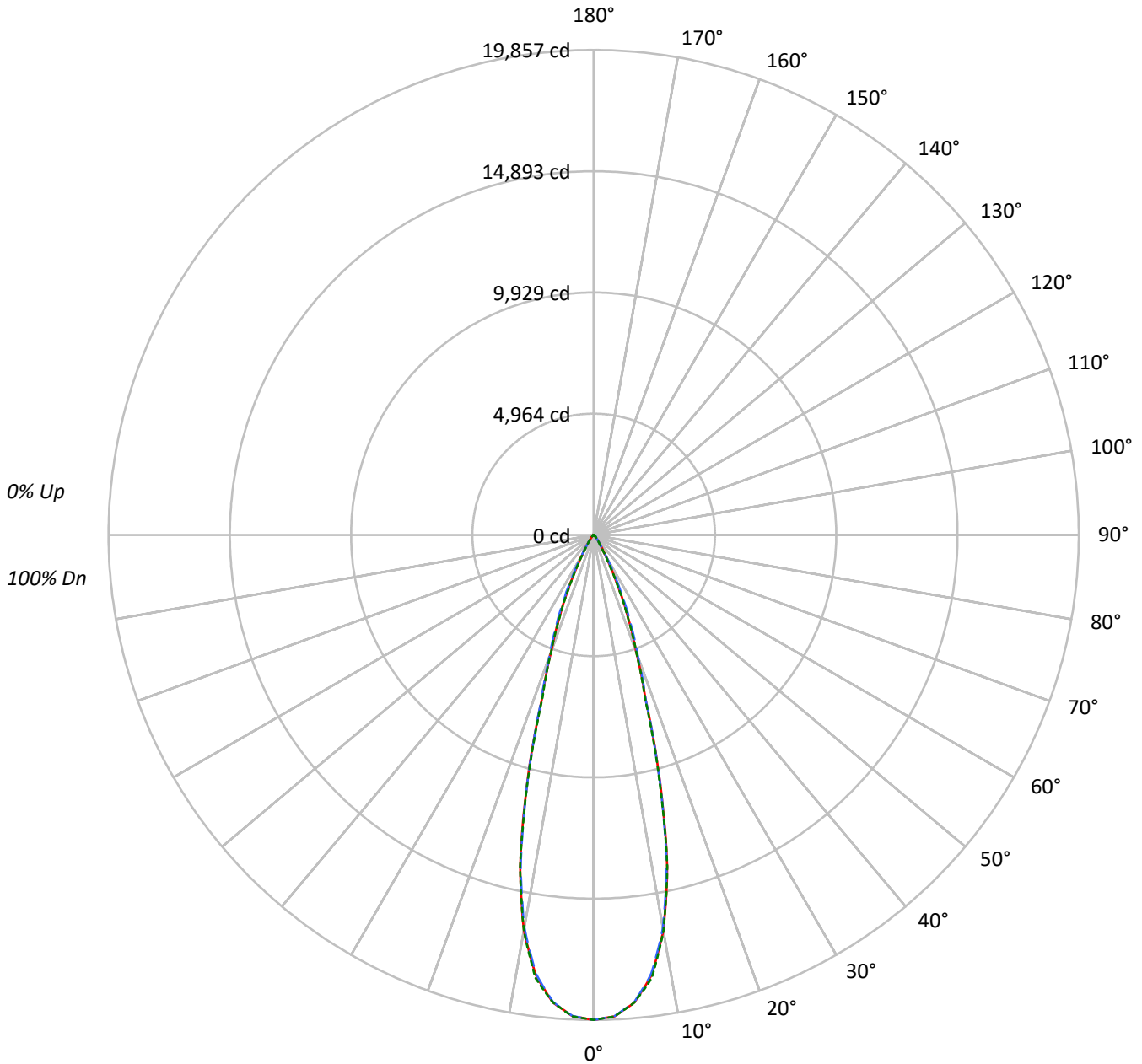
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P751496  
CATALOG NUMBER: LD4D65D010-EU4DR3055659050-4LBDP1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P751496

CATALOG NUMBER: LD4D65D010-EU4DR3055659050-4LBDP1MW

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20										
RC	80					70					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°	1519938	1519938	1519938
5°	1476300	1474578	1476376
10°	1278703	1269687	1278400
15°	834292	829807	825639
20°	414854	430420	414300
25°	208970	235650	204697
30°	83665	91169	72900
35°	38807	37171	31154
40°	16757	18605	15777
45°	11821	14668	11929
50°	4061	10682	4299
55°	2335	4417	2469
60°	1638	1944	1638
65°	1050	1050	1050
70°	649	425	649
75°	0	296	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 14668 cd/sqm



TEST NUMBER: P751496

CATALOG NUMBER: LD4D65D010-EU4DR3055659050-4LBDP1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1746.1	28.3
10°-20°	2812.2	45.5
20°-30°	1215.2	19.7
30°-40°	277.0	4.5
40°-50°	95.1	1.5
50°-60°	23.2	0.4
60°-70°	6.0	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°	5773.5	93.5
0°-40°	6050.5	98.0
0°-60°	6168.8	99.9
0°-90°	6175.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6175.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	19857	19857	19857	19857	19857	
5°	19214	19195	19191	19231	19215	1748
15°	10528	10401	10472	10438	10419	2819
25°	2474	2568	2790	2503	2424	1184
35°	415	424	398	395	333	282
45°	109	136	136	136	110	77
55°	18	18	33	20	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



TEST NUMBER: P751496

CATALOG NUMBER: LD4D65D010-EU4DR3055659050-4LBDP1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	19857.2	19857.2	19857.2	19857.2	19857.2
2.5°	19725.6	19711.9	19719.7	19729.5	19733.4
5°	19213.7	19195.2	19191.3	19231.3	19214.7
7.5°	18181.3	18155.0	18115.0	18205.7	18290.5
10°	16451.8	16422.5	16335.8	16378.7	16447.9
12.5°	13898.5	13803.9	13801.9	13938.4	13919.9
15°	10528.2	10401.4	10471.6	10437.5	10419.0
17.5°	7079.9	7031.1	7124.7	7096.4	6974.6
20°	5093.0	5105.7	5284.1	5194.4	5086.2
22.5°	3716.4	3762.2	3973.8	3742.7	3657.9
25°	2474.3	2567.9	2790.2	2502.6	2423.7
27.5°	1521.9	1564.7	1790.0	1502.4	1459.5
30°	946.6	925.2	1031.5	885.2	824.8
32.5°	621.0	593.7	627.8	563.5	514.8
35°	415.3	424.1	397.8	394.8	333.4
37.5°	259.3	298.3	263.2	280.8	214.5
40°	167.7	216.4	186.2	205.7	157.9
42.5°	137.5	166.7	153.1	162.8	140.4
45°	109.2	135.5	135.5	135.5	110.2
47.5°	60.4	90.7	116.0	92.6	64.3
50°	34.1	45.8	89.7	47.8	36.1
52.5°	23.4	26.3	61.4	27.3	24.4
55°	17.5	18.5	33.1	19.5	18.5
57.5°	13.6	14.6	17.5	14.6	13.6
60°	10.7	10.7	12.7	11.7	10.7
62.5°	7.8	7.8	8.8	7.8	7.8
65°	5.8	5.8	5.8	5.8	5.8
67.5°	2.9	3.9	3.9	3.9	3.9
70°	2.9	1.9	1.9	1.9	2.9
72.5°	1.9	1.0	1.0	1.0	1.0
75°	0.0	0.0	1.0	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)