

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: P751447

Luminaire Tested: LD4D65D010-EU4DR3055659027-4LBS1LI

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P751447  
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-EU4DR3055659027-4LBS1LI  
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6971.5 lumens  
Efficiency: N/A  
Efficacy: 95.8 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

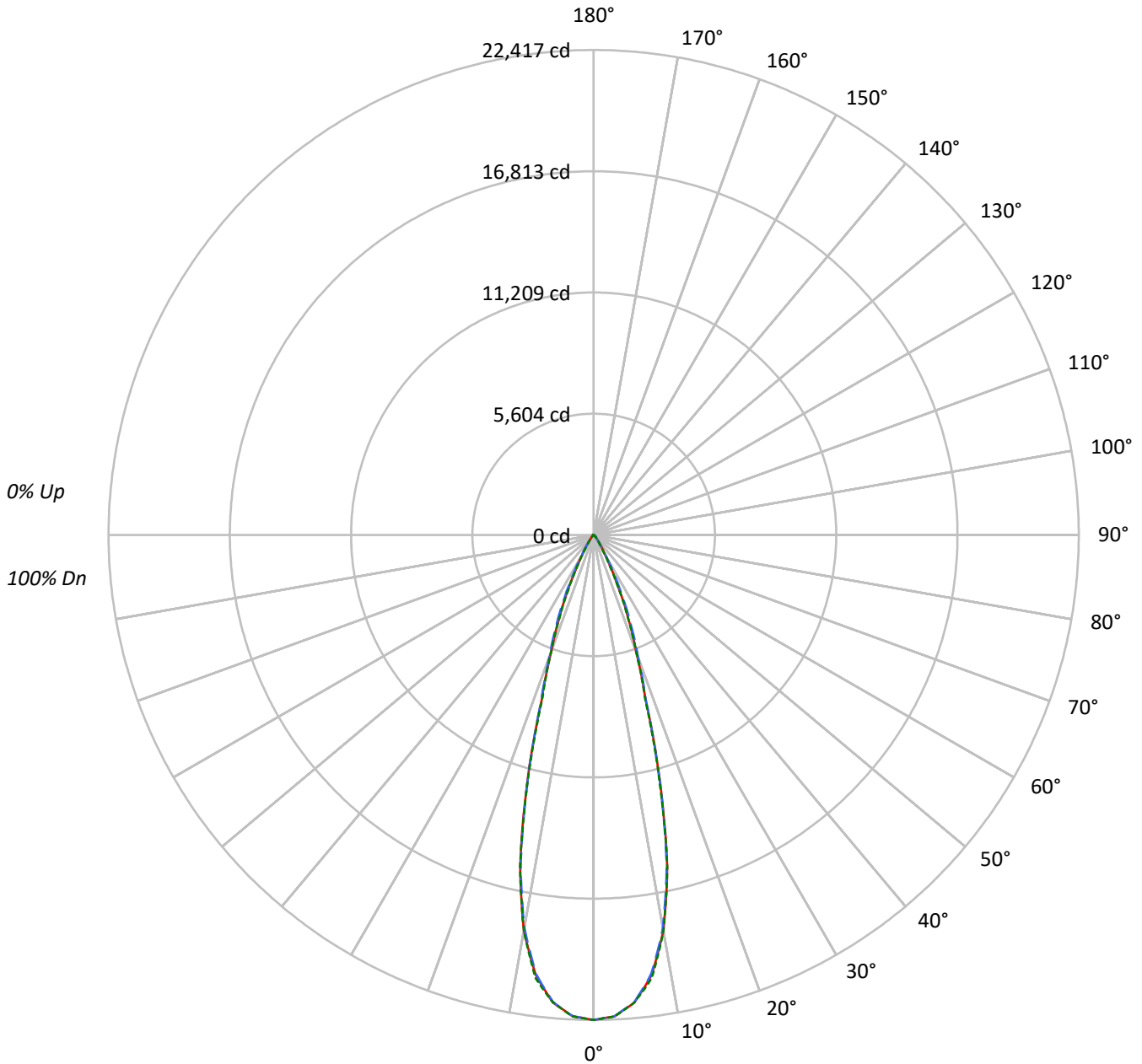
Input Watts (W): 72.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



Downlight

TEST NUMBER: P751447  
CATALOG NUMBER: LD4D65D010-EU4DR3055659027-4LBS1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P751447

CATALOG NUMBER: LD4D65D010-EU4DR3055659027-4LBS1LI

**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°	1715866	1715866	1715866
5°	1666606	1664663	1666691
10°	1443533	1433359	1443191
15°	941833	936778	932071
20°	468330	485900	467703
25°	235912	266029	231081
30°	94457	102915	82295
35°	43815	41956	35172
40°	18915	21003	17816
45°	13347	16562	13466
50°	4585	12063	4847
55°	2642	4991	2789
60°	1852	2189	1852
65°	1195	1195	1195
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: 16562 cd/sqm



TEST NUMBER: P751447

CATALOG NUMBER: LD4D65D010-EU4DR3055659027-4LBS1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1971.2	28.3
10°-20°	3174.7	45.5
20°-30°	1371.9	19.7
30°-40°	312.7	4.5
40°-50°	107.4	1.5
50°-60°	26.2	0.4
60°-70°	6.8	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°	6517.8	93.5
0°-40°	6830.4	98.0
0°-60°	6964.0	99.9
0°-90°	6971.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6971.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	22417	22417	22417	22417	22417	
5°	21690	21670	21665	21710	21692	1973
15°	11885	11742	11822	11783	11762	3182
25°	2793	2899	3150	2825	2736	1337
35°	469	479	449	446	376	318
45°	123	153	153	153	124	87
55°	20	21	37	22	21	19
65°	7	7	7	7	7	6
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



TEST NUMBER: P751447

CATALOG NUMBER: LD4D65D010-EU4DR3055659027-4LBS1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	22416.9	22416.9	22416.9	22416.9	22416.9
2.5°	22268.3	22252.9	22261.7	22272.7	22277.1
5°	21690.5	21669.6	21665.2	21710.3	21691.6
7.5°	20525.0	20495.3	20450.1	20552.5	20648.2
10°	18572.5	18539.5	18441.6	18490.0	18568.1
12.5°	15690.1	15583.3	15581.1	15735.2	15714.3
15°	11885.3	11742.2	11821.5	11783.0	11762.1
17.5°	7992.5	7937.5	8043.1	8011.2	7873.7
20°	5749.5	5763.8	5965.2	5864.0	5741.8
22.5°	4195.5	4247.2	4486.0	4225.2	4129.4
25°	2793.3	2899.0	3149.9	2825.2	2736.1
27.5°	1718.0	1766.5	2020.7	1696.0	1647.6
30°	1068.7	1044.5	1164.4	999.3	931.1
32.5°	701.1	670.3	708.8	636.1	581.1
35°	468.9	478.8	449.0	445.7	376.4
37.5°	292.8	336.8	297.2	317.0	242.1
40°	189.3	244.3	210.2	232.2	178.3
42.5°	155.2	188.2	172.8	183.8	158.5
45°	123.3	153.0	153.0	153.0	124.4
47.5°	68.2	102.4	131.0	104.6	72.6
50°	38.5	51.7	101.3	53.9	40.7
52.5°	26.4	29.7	69.3	30.8	27.5
55°	19.8	20.9	37.4	22.0	20.9
57.5°	15.4	16.5	19.8	16.5	15.4
60°	12.1	12.1	14.3	13.2	12.1
62.5°	8.8	8.8	9.9	8.8	8.8
65°	6.6	6.6	6.6	6.6	6.6
67.5°	3.3	4.4	4.4	4.4	4.4
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)