

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: P751459

Luminaire Tested: LD4D65D010-EU4DR3055659030-4LBS1H

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P751459
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-EU4DR3055659030-4LBS1H
Description: 4 INCH ROUND SHALLOW SEMI-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: 6840.2 lumens
Efficiency: N/A
Efficacy: 94.0 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

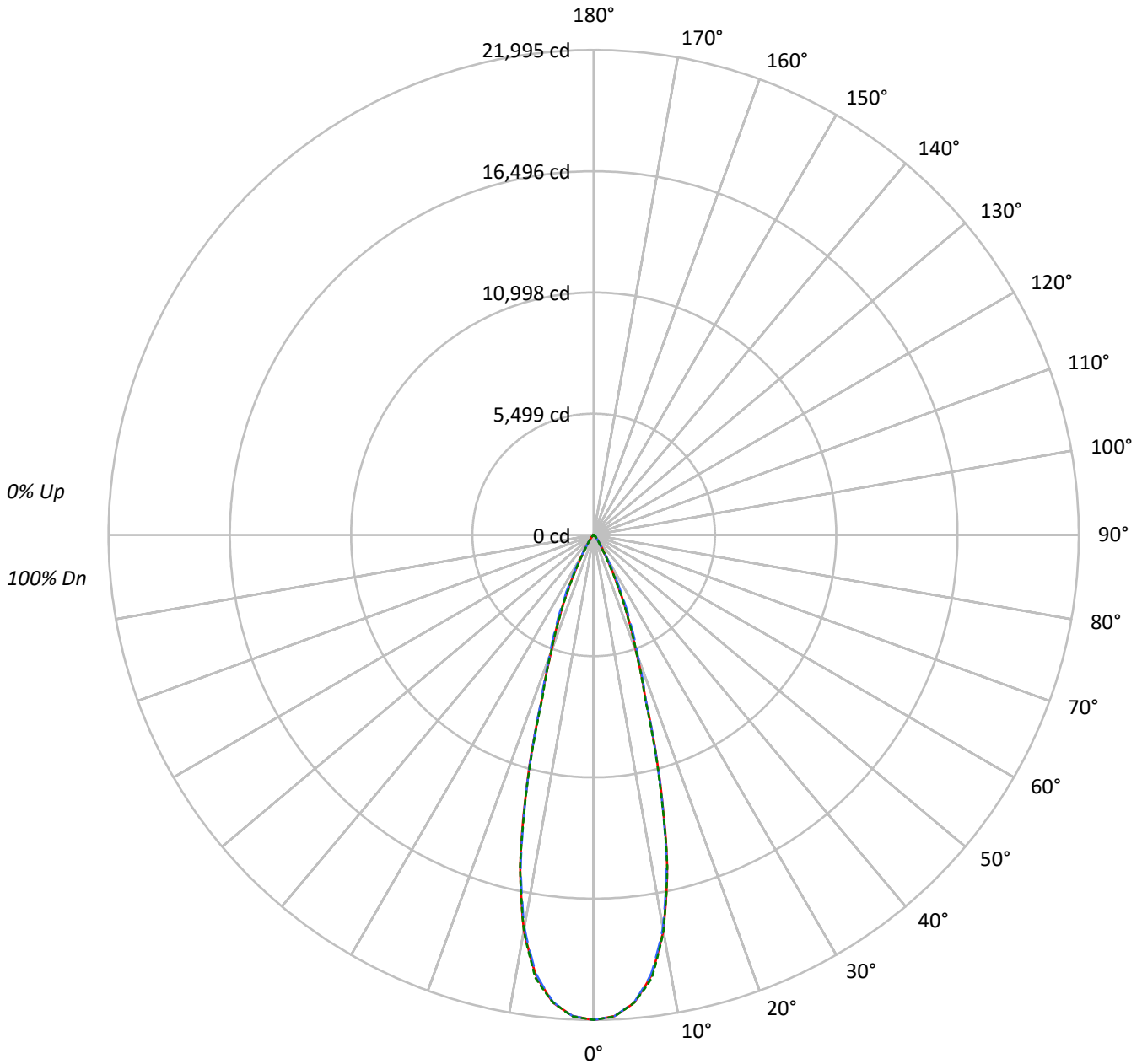
Input Watts (W): 72.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



Downlight

TEST NUMBER: P751459
CATALOG NUMBER: LD4D65D010-EU4DR3055659030-4LBS1H

Luminous Intensity Polar Plot





TEST NUMBER: P751459

CATALOG NUMBER: LD4D65D010-EU4DR3055659030-4LBS1H

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°	1683541	1683541	1683541
5°	1635211	1633306	1635296
10°	1416345	1406349	1416003
15°	924091	919130	914510
20°	459508	476744	458889
25°	231469	261021	226723
30°	92671	100980	80748
35°	42983	41171	34508
40°	18555	20614	17476
45°	13087	16248	13206
50°	4501	11825	4763
55°	2589	4898	2736
60°	1822	2143	1822
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: 16248 cd/sqm



TEST NUMBER: P751459

CATALOG NUMBER: LD4D65D010-EU4DR3055659030-4LBS1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1934.1	28.3
10°-20°	3114.9	45.5
20°-30°	1346.0	19.7
30°-40°	306.8	4.5
40°-50°	105.3	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°	6395.0	93.5
0°-40°	6701.8	98.0
0°-60°	6832.8	99.9
0°-90°	6840.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6840.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21995	21995	21995	21995	21995	
5°	21282	21261	21257	21301	21283	1936
15°	11661	11521	11599	11561	11540	3123
25°	2741	2844	3091	2772	2684	1312
35°	460	470	441	437	369	312
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: P751459

CATALOG NUMBER: LD4D65D010-EU4DR3055659030-4LBS1H

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21994.6	21994.6	21994.6	21994.6	21994.6
2.5°	21848.8	21833.7	21842.3	21853.1	21857.5
5°	21281.9	21261.4	21257.1	21301.3	21283.0
7.5°	20138.3	20109.2	20064.9	20165.3	20259.3
10°	18222.7	18190.3	18094.1	18141.7	18218.3
12.5°	15394.5	15289.8	15287.6	15438.8	15418.3
15°	11661.4	11521.0	11598.8	11561.0	11540.5
17.5°	7842.0	7788.0	7891.6	7860.3	7725.3
20°	5641.2	5655.2	5852.8	5753.5	5633.6
22.5°	4116.4	4167.2	4401.5	4145.6	4051.6
25°	2740.7	2844.4	3090.6	2772.0	2684.5
27.5°	1685.7	1733.2	1982.6	1664.1	1616.6
30°	1048.5	1024.8	1142.5	980.5	913.6
32.5°	687.9	657.6	695.4	624.2	570.2
35°	460.0	469.7	440.6	437.3	369.3
37.5°	287.2	330.4	291.6	311.0	237.6
40°	185.7	239.7	206.3	227.9	174.9
42.5°	152.3	184.7	169.5	180.3	155.5
45°	120.9	150.1	150.1	150.1	122.0
47.5°	67.0	100.4	128.5	102.6	71.3
50°	37.8	50.8	99.3	52.9	40.0
52.5°	25.9	29.2	68.0	30.2	27.0
55°	19.4	20.5	36.7	21.6	20.5
57.5°	15.1	16.2	19.4	16.2	15.1
60°	11.9	11.9	14.0	13.0	11.9
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)