

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: P739853

Luminaire Tested: LD4D05D010-EU4DR150210IC9027-4LBDP1LI

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739853  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR150210IC9027-4LBDP1LI  
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 652.6 lumens  
Efficiency: N/A  
Efficacy: 87.0 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 7.5  
Input Voltage (V): NR  
Input Current (Ain): 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



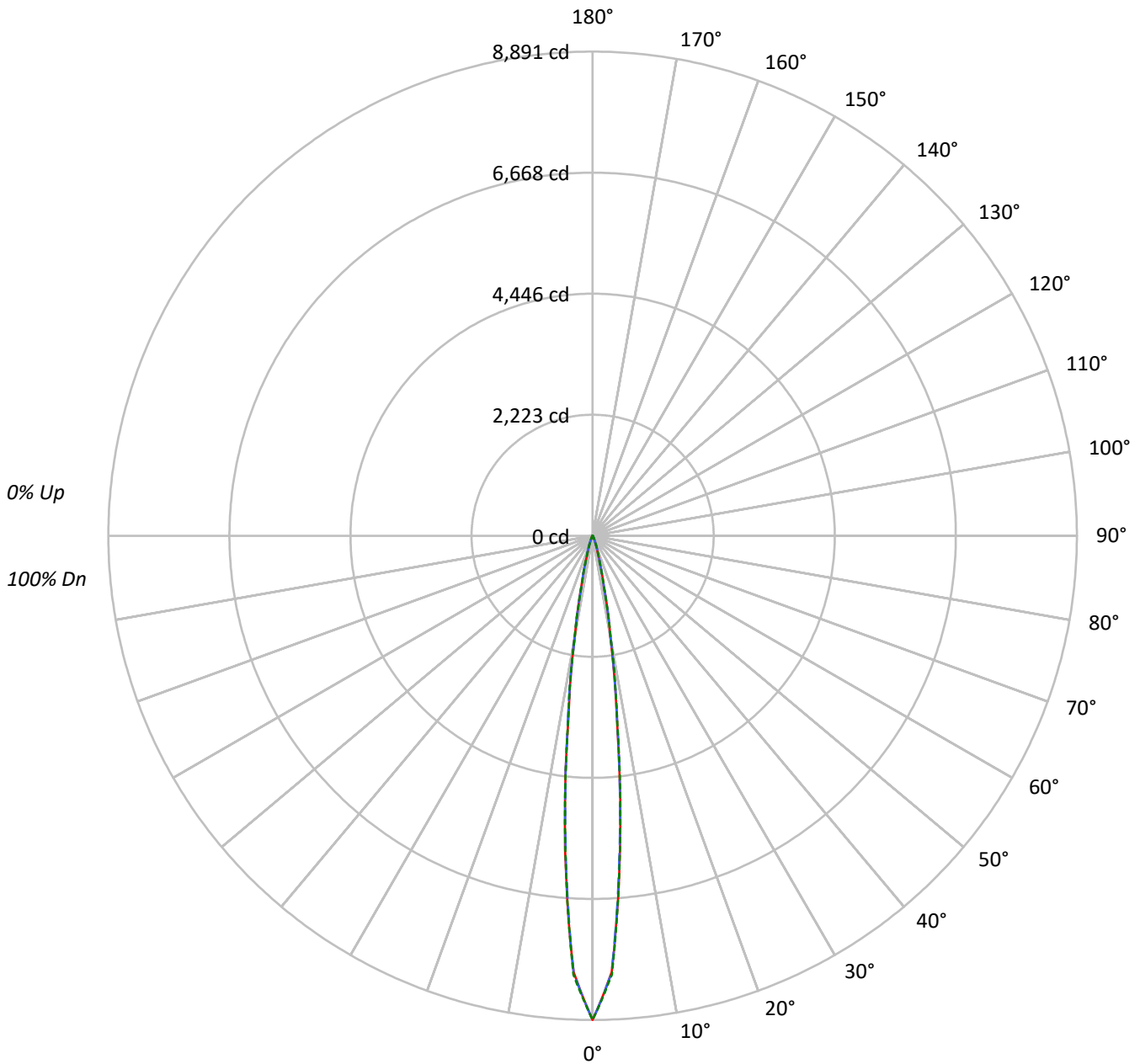
Downlight



TEST NUMBER: P739853

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9027-4LBDP1LI

### Luminous Intensity Polar Plot





TEST NUMBER: P739853

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9027-4LBDP1LI

**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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	87	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

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

	0°	45°	90°
0°	1000426	1000426	1000426
5°	587893	580281	584874
10°	175456	176687	179393
15°	43646	44497	43124
20°	13059	15121	13337
25°	4604	5866	4658
30°	1692	2224	1722
35°	850	959	821
40°	533	589	533
45°	392	420	392
50°	313	313	313
55°	264	264	264
60°	211	211	211
65°	164	164	164
70°	139	139	139
75°	83	83	113
80°	63	63	63
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 420 cd/sqm



TEST NUMBER: P739853

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9027-4LBDP1LI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	423.2	64.9
10°-20°	174.1	26.7
20°-30°	34.6	5.3
30°-40°	8.6	1.3
40°-50°	4.5	0.7
50°-60°	3.4	0.5
60°-70°	2.4	0.4
70°-80°	1.3	0.2
80°-90°	0.4	0.1
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°	631.9	96.8
0°-40°	640.5	98.2
0°-60°	648.4	99.4
0°-90°	652.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	652.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8891	8891	8891	8891	8891	
5°	5785	5725	5710	5749	5755	422
15°	502	512	512	503	496	172
25°	59	67	75	67	60	31
35°	12	12	13	12	11	8
45°	6	6	6	6	6	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P739853

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9027-4LBDP1LI

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8891.1	8891.1	8891.1	8891.1	8891.1
2.5°	8020.1	8026.9	8029.5	8037.4	8066.8
5°	5784.7	5725.3	5709.8	5749.3	5755.0
7.5°	3426.6	3438.7	3482.7	3492.5	3457.1
10°	1880.4	1895.9	1893.6	1907.2	1922.6
12.5°	961.7	949.6	945.9	961.3	939.8
15°	502.5	511.9	512.3	503.2	496.5
17.5°	270.2	281.2	299.2	284.6	262.0
20°	159.6	169.4	184.8	172.8	163.0
22.5°	98.6	106.5	117.4	108.0	100.1
25°	59.1	67.0	75.3	66.6	59.8
27.5°	35.0	41.8	47.0	41.4	34.6
30°	22.6	26.3	29.7	26.0	23.0
32.5°	15.8	17.3	18.8	17.3	15.8
35°	11.7	12.4	13.2	12.4	11.3
37.5°	9.0	9.8	10.2	9.4	8.7
40°	7.5	7.9	8.3	7.9	7.5
42.5°	6.4	6.8	6.8	6.8	6.4
45°	5.6	5.6	6.0	5.6	5.6
47.5°	4.9	4.9	5.3	4.9	4.9
50°	4.5	4.5	4.5	4.5	4.5
52.5°	4.1	4.1	4.1	4.1	4.1
55°	3.8	3.8	3.8	3.8	3.8
57.5°	3.4	3.4	3.4	3.4	3.4
60°	3.0	3.0	3.0	3.0	3.0
62.5°	2.6	2.6	2.6	2.6	2.6
65°	2.3	2.3	2.3	2.3	2.3
67.5°	2.3	2.3	2.3	2.3	2.3
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
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)