

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: P739864

Luminaire Tested: LD4D05D010-EU4DR150210IC9030-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P739864
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-EU4DR150210IC9030-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 599.7 lumens
Efficiency: N/A
Efficacy: 80.0 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 (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

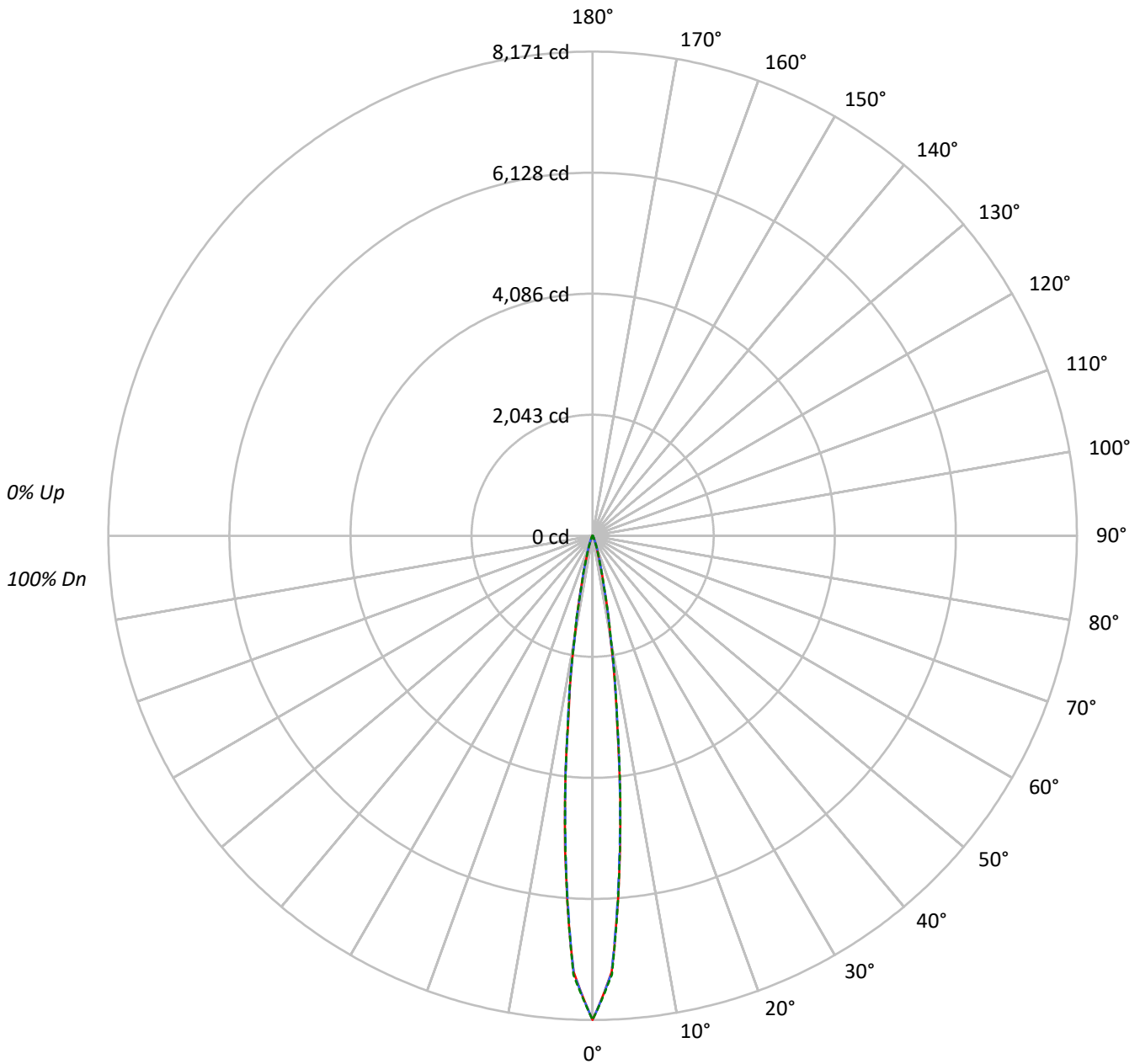


Downlight



TEST NUMBER: P739864
CATALOG NUMBER: LD4D05D010-EU4DR150210IC9030-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P739864

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9030-4LBDP1B

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	919378	919378	919378
5°	540269	533277	537495
10°	161245	162374	164865
15°	40110	40892	39624
20°	12003	13894	12257
25°	4230	5391	4285
30°	1558	2044	1580
35°	777	879	755
40°	490	540	490
45°	364	385	364
50°	292	292	292
55°	244	244	244
60°	197	197	197
65°	150	150	150
70°	124	124	124
75°	76	76	106
80°	55	55	55
85°	25	25	25

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 385 cd/sqm



TEST NUMBER: P739864

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9030-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	388.9	64.9
10°-20°	160.0	26.7
20°-30°	31.8	5.3
30°-40°	7.9	1.3
40°-50°	4.2	0.7
50°-60°	3.1	0.5
60°-70°	2.2	0.4
70°-80°	1.2	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°	580.7	96.8
0°-40°	588.6	98.2
0°-60°	595.9	99.4
0°-90°	599.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	599.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8171	8171	8171	8171	8171	
5°	5316	5262	5247	5284	5289	388
15°	462	470	471	462	456	158
25°	54	62	69	61	55	29
35°	11	11	12	11	10	7
45°	5	5	6	5	5	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P739864

CATALOG NUMBER: LD4D05D010-EU4DR150210IC9030-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8170.8	8170.8	8170.8	8170.8	8170.8
2.5°	7370.4	7376.6	7379.1	7386.3	7413.3
5°	5316.1	5261.5	5247.3	5283.6	5288.8
7.5°	3149.1	3160.1	3200.6	3209.6	3177.1
10°	1728.1	1742.3	1740.2	1752.7	1766.9
12.5°	883.8	872.7	869.2	883.4	863.7
15°	461.8	470.4	470.8	462.5	456.2
17.5°	248.4	258.4	275.0	261.5	240.7
20°	146.7	155.7	169.8	158.8	149.8
22.5°	90.6	97.9	107.9	99.3	92.0
25°	54.3	61.6	69.2	61.2	55.0
27.5°	32.2	38.4	43.2	38.0	31.8
30°	20.8	24.2	27.3	23.9	21.1
32.5°	14.5	15.9	17.3	15.9	14.5
35°	10.7	11.4	12.1	11.4	10.4
37.5°	8.3	9.0	9.3	8.6	8.0
40°	6.9	7.3	7.6	7.3	6.9
42.5°	5.9	6.2	6.2	6.2	5.9
45°	5.2	5.2	5.5	5.2	5.2
47.5°	4.5	4.5	4.8	4.5	4.5
50°	4.2	4.2	4.2	4.2	4.2
52.5°	3.8	3.8	3.8	3.8	3.8
55°	3.5	3.5	3.5	3.5	3.5
57.5°	3.1	3.1	3.1	3.1	3.1
60°	2.8	2.8	2.8	2.8	2.8
62.5°	2.4	2.4	2.4	2.4	2.4
65°	2.1	2.1	2.1	2.1	2.1
67.5°	2.1	2.1	2.1	2.1	2.1
70°	1.7	1.7	1.7	1.7	1.7
72.5°	1.4	1.4	1.4	1.4	1.4
75°	1.0	1.0	1.0	1.0	1.4
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3
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)