

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: P743866

Luminaire Tested: LD4D20D010-EU4DR1515309024-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743866
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: LD4D20D010-EU4DR1515309024-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1605.2 lumens
Efficiency: N/A
Efficacy: 69.5 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): 23.1
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

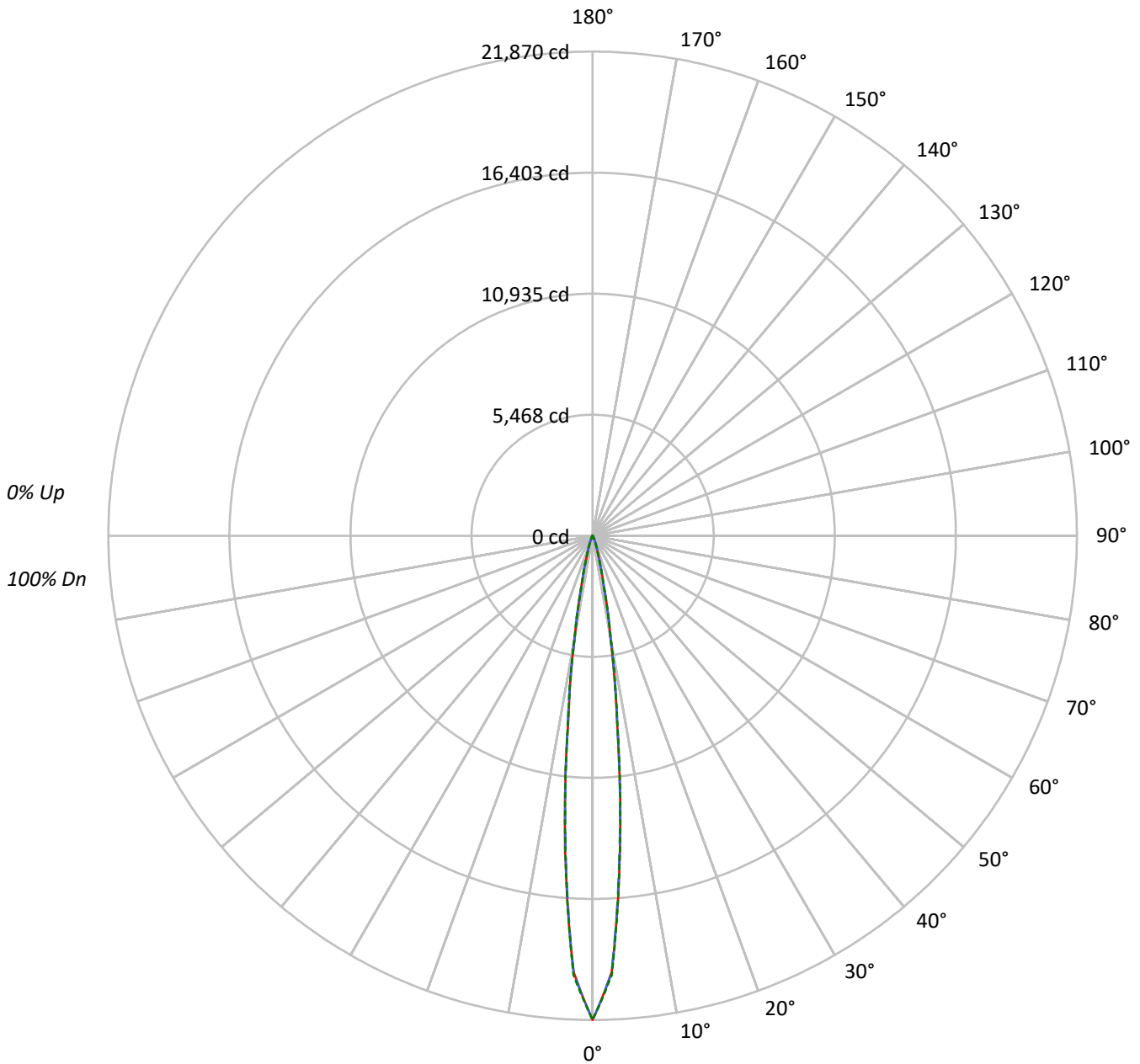


Downlight



TEST NUMBER: P743866
CATALOG NUMBER: LD4D20D010-EU4DR1515309024-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P743866

CATALOG NUMBER: LD4D20D010-EU4DR1515309024-4LBS1B

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°	2460800	2460800	2460800
5°	1446078	1427358	1438649
10°	431585	434608	441261
15°	107355	109448	106070
20°	32124	37197	32803
25°	11327	14427	11467
30°	4156	5474	4231
35°	2084	2353	2019
40°	1314	1449	1314
45°	973	1036	973
50°	772	772	772
55°	647	647	647
60°	520	520	520
65°	400	400	400
70°	336	336	336
75°	212	212	280
80°	150	150	150
85°	75	75	75

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 1036 cd/sqm



TEST NUMBER: P743866

CATALOG NUMBER: LD4D20D010-EU4DR1515309024-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1041.1	64.9
10°-20°	428.2	26.7
20°-30°	85.1	5.3
30°-40°	21.2	1.3
40°-50°	11.2	0.7
50°-60°	8.3	0.5
60°-70°	5.9	0.4
70°-80°	3.3	0.2
80°-90°	1.0	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°	1554.3	96.8
0°-40°	1575.6	98.2
0°-60°	1595.0	99.4
0°-90°	1605.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1605.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21870	21870	21870	21870	21870	
5°	14229	14083	14045	14142	14156	1039
15°	1236	1259	1260	1238	1221	424
25°	145	165	185	164	147	76
35°	29	31	32	31	28	19
45°	14	14	15	14	14	11
55°	9	9	9	9	9	8
65°	6	6	6	6	6	6
75°	3	3	3	3	4	3
85°	1	1	1	1	1	1
90°	0	0	0	0	0	



TEST NUMBER: P743866

CATALOG NUMBER: LD4D20D010-EU4DR1515309024-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21869.9	21869.9	21869.9	21869.9	21869.9
2.5°	19727.5	19744.2	19750.7	19770.1	19842.3
5°	14229.0	14082.8	14044.8	14142.0	14155.9
7.5°	8428.7	8458.4	8566.7	8590.8	8503.7
10°	4625.4	4663.4	4657.8	4691.2	4729.1
12.5°	2365.5	2335.9	2326.6	2364.6	2311.8
15°	1236.0	1259.1	1260.1	1237.8	1221.2
17.5°	664.7	691.6	736.0	699.9	644.4
20°	392.6	416.6	454.6	425.0	400.9
22.5°	242.6	262.0	288.9	265.7	246.3
25°	145.4	164.8	185.2	163.9	147.2
27.5°	86.1	102.8	115.7	101.8	85.2
30°	55.5	64.8	73.1	63.9	56.5
32.5°	38.9	42.6	46.3	42.6	38.9
35°	28.7	30.6	32.4	30.6	27.8
37.5°	22.2	24.1	25.0	23.1	21.3
40°	18.5	19.4	20.4	19.4	18.5
42.5°	15.7	16.7	16.7	16.7	15.7
45°	13.9	13.9	14.8	13.9	13.9
47.5°	12.0	12.0	13.0	12.0	12.0
50°	11.1	11.1	11.1	11.1	11.1
52.5°	10.2	10.2	10.2	10.2	10.2
55°	9.3	9.3	9.3	9.3	9.3
57.5°	8.3	8.3	8.3	8.3	8.3
60°	7.4	7.4	7.4	7.4	7.4
62.5°	6.5	6.5	6.5	6.5	6.5
65°	5.6	5.6	5.6	5.6	5.6
67.5°	5.6	5.6	5.6	5.6	5.6
70°	4.6	4.6	4.6	4.6	4.6
72.5°	3.7	3.7	3.7	3.7	3.7
75°	2.8	2.8	2.8	2.8	3.7
77.5°	2.8	2.8	2.8	2.8	2.8
80°	1.9	1.9	1.9	1.9	1.9
82.5°	1.9	1.9	1.9	1.9	1.9
85°	0.9	0.9	0.9	0.9	0.9
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)