

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: P738824

Luminaire Tested: LD4D02D010-EU4DR150210IC9024-4LBDP1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P738824
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: LD4D02D010-EU4DR150210IC9024-4LBDP1B
Description: 4 INCH ROUND DEEP 45° CUTOFF 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: 287.0 lumens
Efficiency: N/A
Efficacy: 56.3 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): 5.1
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

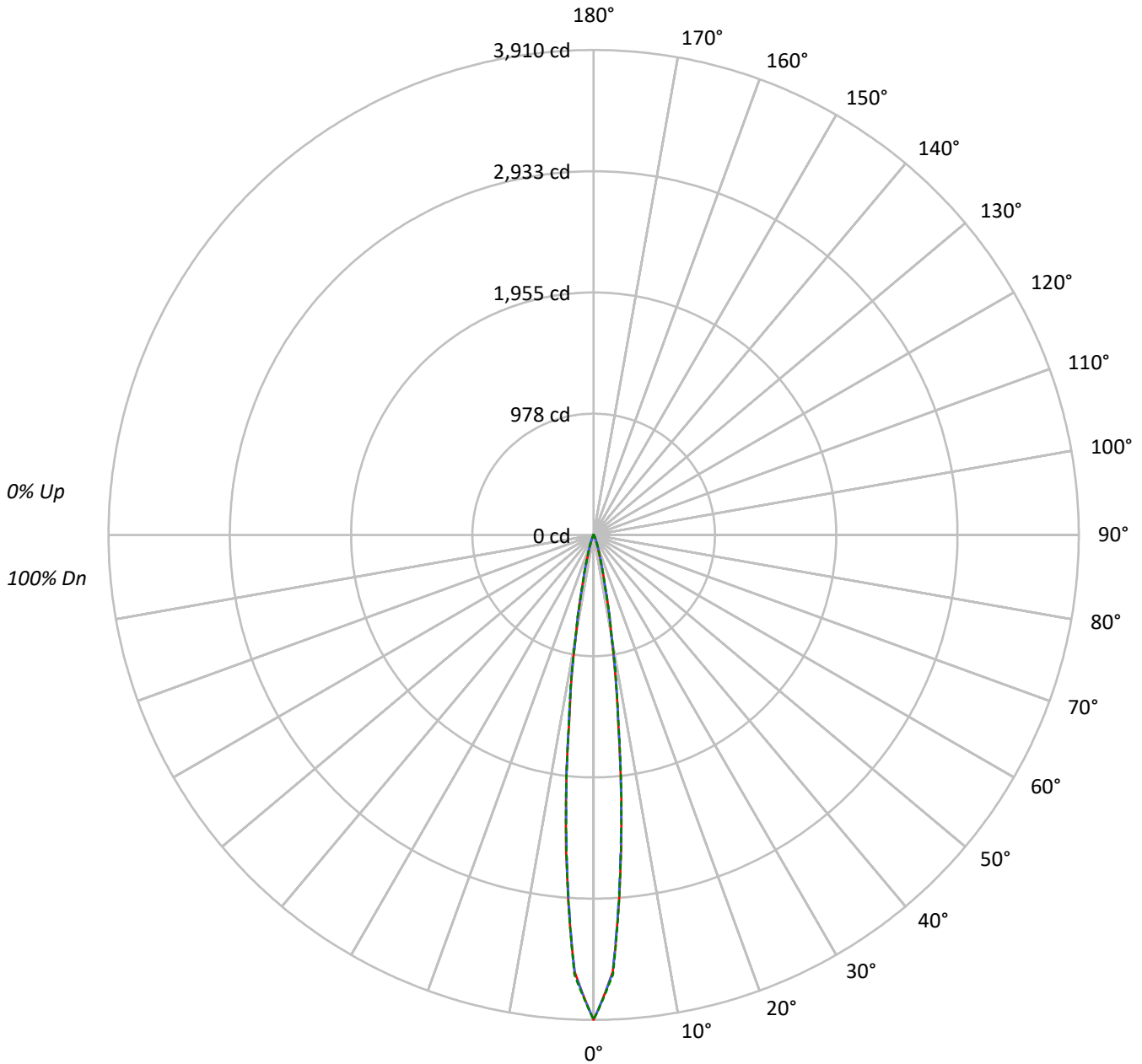


Downlight



TEST NUMBER: P738824
CATALOG NUMBER: LD4D02D010-EU4DR150210IC9024-4LBDP1B

Luminous Intensity Polar Plot





TEST NUMBER: P738824

CATALOG NUMBER: LD4D02D010-EU4DR150210IC9024-4LBDP1B

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	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	93	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°	439942	439942	439942
5°	258534	255180	257202
10°	77156	77697	78892
15°	19195	19569	18961
20°	5744	6652	5867
25°	2025	2579	2049
30°	741	981	756
35°	370	421	363
40°	234	256	234
45°	175	182	175
50°	139	139	139
55°	118	118	118
60°	91	91	91
65°	71	71	71
70°	59	59	59
75°	38	38	53
80°	24	24	24
85°	17	17	17

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 182 cd/sqm



TEST NUMBER: P738824

CATALOG NUMBER: LD4D02D010-EU4DR150210IC9024-4LBDP1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	64.8
10°-20°	76.6	26.7
20°-30°	15.2	5.3
30°-40°	3.8	1.3
40°-50°	2.0	0.7
50°-60°	1.5	0.5
60°-70°	1.1	0.4
70°-80°	0.6	0.2
80°-90°	0.2	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°	277.9	96.8
0°-40°	281.7	98.1
0°-60°	285.2	99.4
0°-90°	287.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	287.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3910	3910	3910	3910	3910	
5°	2544	2518	2511	2528	2531	186
15°	221	225	225	221	218	76
25°	26	30	33	29	26	14
35°	5	6	6	6	5	3
45°	2	2	3	2	2	2
55°	2	2	2	2	2	1
65°	1	1	1	1	1	1
75°	0	0	0	0	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P738824

CATALOG NUMBER: LD4D02D010-EU4DR150210IC9024-4LBDP1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3909.9	3909.9	3909.9	3909.9	3909.9
2.5°	3526.9	3529.9	3531.0	3534.5	3547.4
5°	2543.9	2517.7	2510.9	2528.3	2530.8
7.5°	1506.9	1512.2	1531.6	1535.9	1520.3
10°	826.9	833.7	832.7	838.7	845.5
12.5°	422.9	417.6	416.0	422.7	413.3
15°	221.0	225.1	225.3	221.3	218.3
17.5°	118.8	123.6	131.6	125.1	115.2
20°	70.2	74.5	81.3	76.0	71.7
22.5°	43.4	46.8	51.6	47.5	44.0
25°	26.0	29.5	33.1	29.3	26.3
27.5°	15.4	18.4	20.7	18.2	15.2
30°	9.9	11.6	13.1	11.4	10.1
32.5°	7.0	7.6	8.3	7.6	7.0
35°	5.1	5.5	5.8	5.5	5.0
37.5°	4.0	4.3	4.5	4.1	3.8
40°	3.3	3.5	3.6	3.5	3.3
42.5°	2.8	3.0	3.0	3.0	2.8
45°	2.5	2.5	2.6	2.5	2.5
47.5°	2.2	2.2	2.3	2.2	2.2
50°	2.0	2.0	2.0	2.0	2.0
52.5°	1.8	1.8	1.8	1.8	1.8
55°	1.7	1.7	1.7	1.7	1.7
57.5°	1.5	1.5	1.5	1.5	1.5
60°	1.3	1.3	1.3	1.3	1.3
62.5°	1.2	1.2	1.2	1.2	1.2
65°	1.0	1.0	1.0	1.0	1.0
67.5°	1.0	1.0	1.0	1.0	1.0
70°	0.8	0.8	0.8	0.8	0.8
72.5°	0.7	0.7	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.7
77.5°	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3
82.5°	0.3	0.3	0.3	0.3	0.3
85°	0.2	0.2	0.2	0.2	0.2
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)