

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: P740907

Luminaire Tested: LD4D08D010-EU4DR150210IC9040-4LBDP1MW

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P740907
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: LD4D08D010-EU4DR150210IC9040-4LBDP1MW
Description: 4 INCH ROUND DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 793.3 lumens
Efficiency: N/A
Efficacy: 89.1 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): 8.9
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



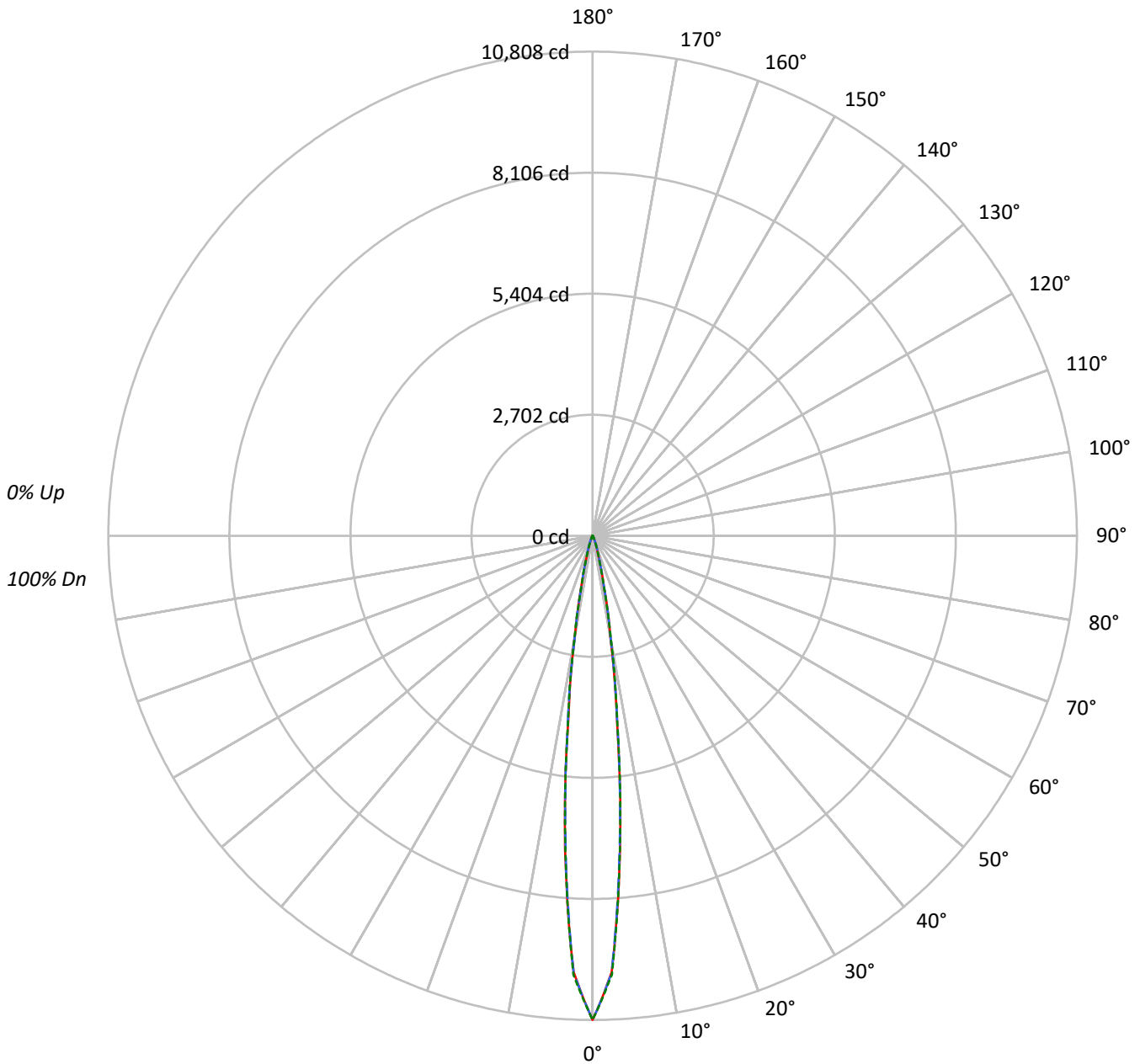
Downlight



TEST NUMBER: P740907

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9040-4LBDP1MW

Luminous Intensity Polar Plot





TEST NUMBER: P740907

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9040-4LBDP1MW

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	88	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°	1216172	1216172	1216172
5°	714675	705427	711006
10°	213301	214794	218079
15°	53052	54086	52418
20°	15874	18386	16209
25°	5593	7128	5671
30°	2059	2703	2089
35°	1031	1162	995
40°	653	717	653
45°	483	511	483
50°	382	382	382
55°	320	320	320
60°	260	260	260
65°	193	193	193
70°	168	168	168
75°	106	106	136
80°	71	71	71
85°	42	42	42

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 511 cd/sqm



TEST NUMBER: P740907

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9040-4LBDP1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.5	64.9
10°-20°	211.6	26.7
20°-30°	42.0	5.3
30°-40°	10.5	1.3
40°-50°	5.5	0.7
50°-60°	4.1	0.5
60°-70°	2.9	0.4
70°-80°	1.6	0.2
80°-90°	0.5	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°	768.2	96.8
0°-40°	778.7	98.2
0°-60°	788.3	99.4
0°-90°	793.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	793.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10808	10808	10808	10808	10808	
5°	7032	6960	6941	6989	6996	514
15°	611	622	623	612	604	209
25°	72	81	92	81	73	38
35°	14	15	16	15	14	10
45°	7	7	7	7	7	5
55°	5	5	5	5	5	4
65°	3	3	3	3	3	3
75°	1	1	1	1	2	2
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



TEST NUMBER: P740907

CATALOG NUMBER: LD4D08D010-EU4DR150210IC9040-4LBDP1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10808.5	10808.5	10808.5	10808.5	10808.5
2.5°	9749.7	9757.9	9761.1	9770.7	9806.4
5°	7032.2	6959.9	6941.2	6989.2	6996.1
7.5°	4165.6	4180.3	4233.8	4245.7	4202.7
10°	2286.0	2304.7	2302.0	2318.5	2337.2
12.5°	1169.1	1154.4	1149.8	1168.6	1142.5
15°	610.8	622.3	622.7	611.8	603.5
17.5°	328.5	341.8	363.8	345.9	318.5
20°	194.0	205.9	224.7	210.0	198.1
22.5°	119.9	129.5	142.8	131.3	121.7
25°	71.8	81.4	91.5	81.0	72.8
27.5°	42.6	50.8	57.2	50.3	42.1
30°	27.5	32.0	36.1	31.6	27.9
32.5°	19.2	21.0	22.9	21.0	19.2
35°	14.2	15.1	16.0	15.1	13.7
37.5°	11.0	11.9	12.4	11.4	10.5
40°	9.2	9.6	10.1	9.6	9.2
42.5°	7.8	8.2	8.2	8.2	7.8
45°	6.9	6.9	7.3	6.9	6.9
47.5°	5.9	5.9	6.4	5.9	5.9
50°	5.5	5.5	5.5	5.5	5.5
52.5°	5.0	5.0	5.0	5.0	5.0
55°	4.6	4.6	4.6	4.6	4.6
57.5°	4.1	4.1	4.1	4.1	4.1
60°	3.7	3.7	3.7	3.7	3.7
62.5°	3.2	3.2	3.2	3.2	3.2
65°	2.7	2.7	2.7	2.7	2.7
67.5°	2.7	2.7	2.7	2.7	2.7
70°	2.3	2.3	2.3	2.3	2.3
72.5°	1.8	1.8	1.8	1.8	1.8
75°	1.4	1.4	1.4	1.4	1.8
77.5°	1.4	1.4	1.4	1.4	1.4
80°	0.9	0.9	0.9	0.9	0.9
82.5°	0.9	0.9	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5
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)