

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: P740133

Luminaire Tested: LD4D05D010-EU4DR300210IC9040-4LBSQW1MW

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P740133
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D05D010-EU4DR300210IC9040-4LBSQW1MW
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 565.9 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
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

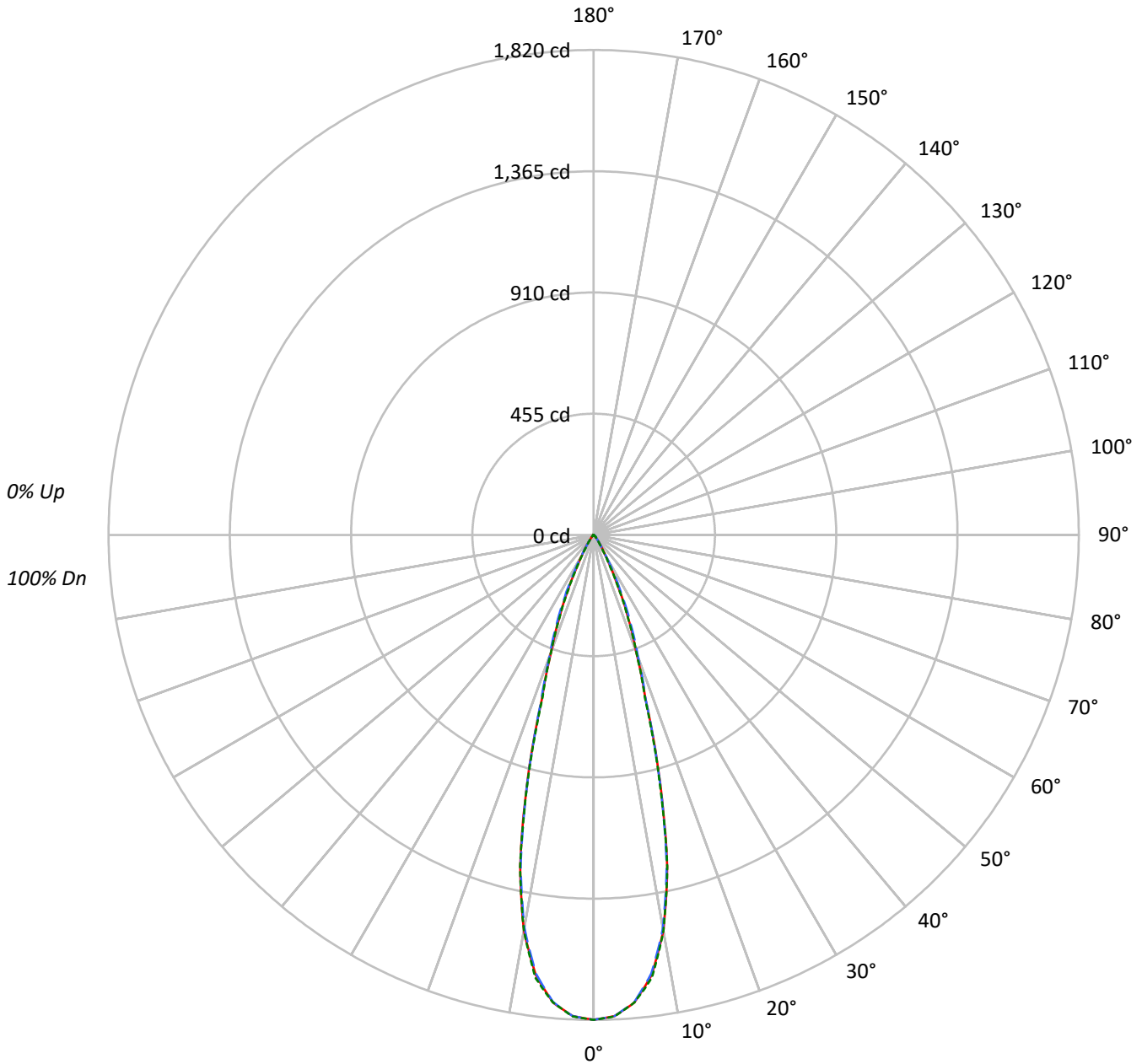


Downlight



TEST NUMBER: P740133
CATALOG NUMBER: LD4D05D010-EU4DR300210IC9040-4LBSQW1MW

Luminous Intensity Polar Plot





TEST NUMBER: P740133

CATALOG NUMBER: LD4D05D010-EU4DR300210IC9040-4LBSQW1MW

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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96																			
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92																			
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89																			
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85																			
5	100	94	89	86	98	93	89	86	91	88	85	90	87	84	88	86	83	82																			
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80	79																			
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78	77																			
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75	74																			
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73	72																			
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70	69																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	139294	139294	139294
5°	135292	135139	135300
10°	117185	116361	117154
15°	76454	76042	75662
20°	38015	39449	37967
25°	19155	21595	18758
30°	7663	8352	6682
35°	3551	3401	2850
40°	1539	1709	1449
45°	1082	1342	1093
50°	381	976	393
55°	214	400	227
60°	153	168	153
65°	91	91	91
70°	67	45	67
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1342 cd/sqm



TEST NUMBER: P740133

CATALOG NUMBER: LD4D05D010-EU4DR300210IC9040-4LBSQW1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.0	28.3
10°-20°	257.7	45.5
20°-30°	111.4	19.7
30°-40°	25.4	4.5
40°-50°	8.7	1.5
50°-60°	2.1	0.4
60°-70°	0.5	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	529.1	93.5
0°-40°	554.5	98.0
0°-60°	565.3	99.9
0°-90°	565.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	565.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1820	1820	1820	1820	1820	
5°	1761	1759	1759	1762	1761	160
15°	965	953	960	956	955	258
25°	227	235	256	229	222	109
35°	38	39	36	36	30	26
45°	10	12	12	12	10	7
55°	2	2	3	2	2	2
65°	0	0	0	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P740133

CATALOG NUMBER: LD4D05D010-EU4DR300210IC9040-4LBSQW1MW

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1819.8	1819.8	1819.8	1819.8	1819.8
2.5°	1807.7	1806.5	1807.2	1808.1	1808.5
5°	1760.8	1759.1	1758.8	1762.4	1760.9
7.5°	1666.2	1663.8	1660.1	1668.4	1676.2
10°	1507.7	1505.0	1497.1	1501.0	1507.3
12.5°	1273.7	1265.0	1264.8	1277.4	1275.7
15°	964.8	953.2	959.6	956.5	954.8
17.5°	648.8	644.3	652.9	650.4	639.2
20°	466.7	467.9	484.3	476.0	466.1
22.5°	340.6	344.8	364.2	343.0	335.2
25°	226.8	235.3	255.7	229.4	222.1
27.5°	139.5	143.4	164.0	137.7	133.7
30°	86.7	84.8	94.5	81.1	75.6
32.5°	56.9	54.4	57.5	51.6	47.2
35°	38.0	38.8	36.4	36.2	30.5
37.5°	23.8	27.3	24.1	25.7	19.7
40°	15.4	19.8	17.1	18.9	14.5
42.5°	12.6	15.3	14.0	14.9	12.9
45°	10.0	12.4	12.4	12.4	10.1
47.5°	5.6	8.3	10.7	8.5	5.9
50°	3.2	4.2	8.2	4.4	3.3
52.5°	2.1	2.4	5.6	2.5	2.2
55°	1.6	1.7	3.0	1.8	1.7
57.5°	1.3	1.3	1.6	1.3	1.3
60°	1.0	1.0	1.1	1.1	1.0
62.5°	0.7	0.7	0.8	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.3	0.3	0.3	0.3	0.3
70°	0.3	0.2	0.2	0.2	0.3
72.5°	0.2	0.1	0.1	0.1	0.1
75°	0.0	0.0	0.1	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
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)