

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: P741107

Luminaire Tested: LD4D08D010-EU4DR300210IC9027-4LBSQW1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P741107
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: LD4D08D010-EU4DR300210IC9027-4LBSQW1B
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 536.9 lumens
Efficiency: N/A
Efficacy: 60.3 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): 8.9
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

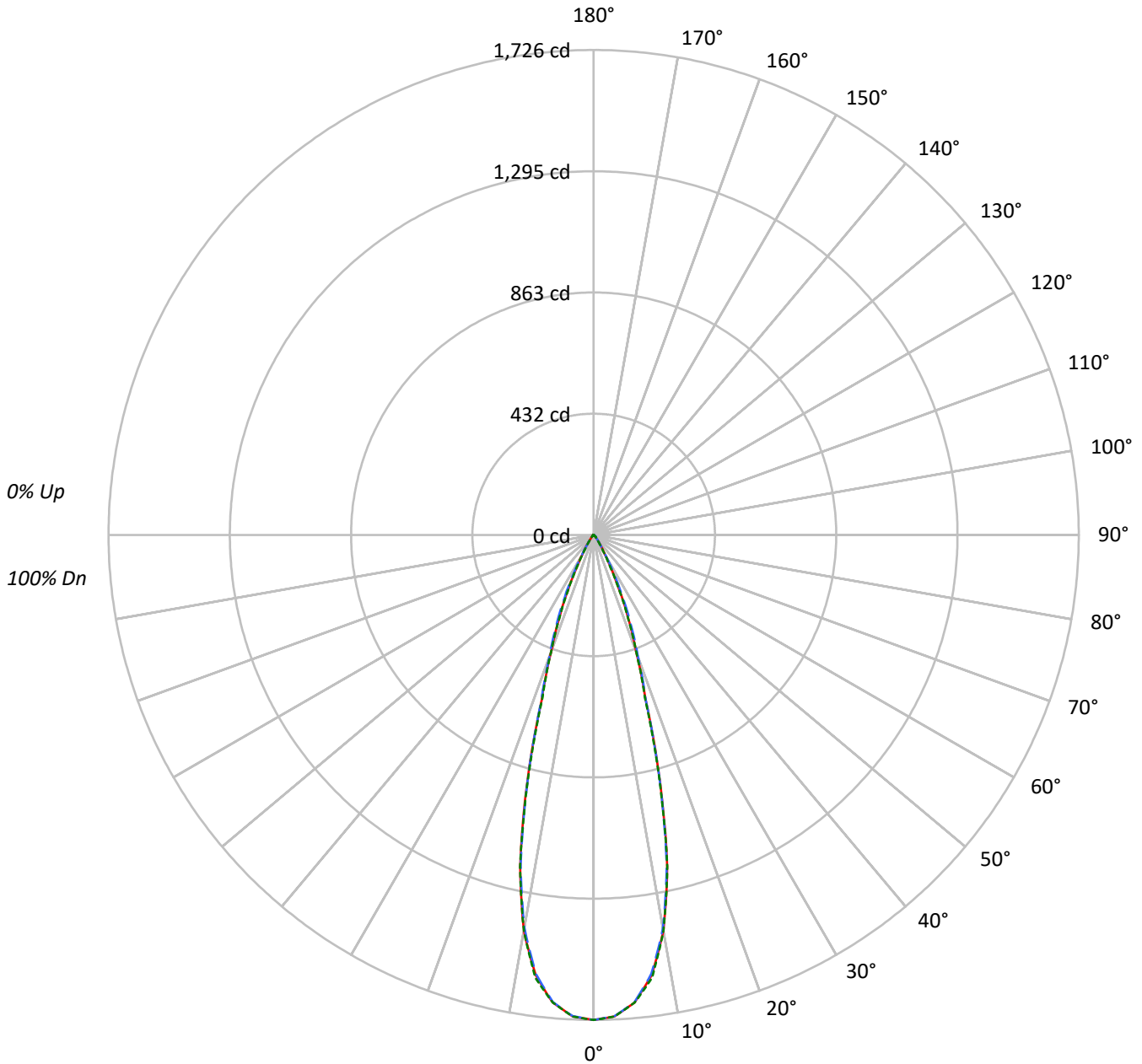


Downlight



TEST NUMBER: P741107
CATALOG NUMBER: LD4D08D010-EU4DR300210IC9027-4LBSQW1B

Luminous Intensity Polar Plot





TEST NUMBER: P741107

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9027-4LBSQW1B

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	86	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°	132137	132137	132137
5°	128339	128193	128346
10°	111161	110376	111138
15°	72524	72143	71779
20°	36069	37421	36012
25°	18167	20489	17795
30°	7274	7928	6337
35°	3373	3233	2710
40°	1459	1619	1379
45°	1028	1277	1039
50°	357	929	381
55°	200	387	214
60°	138	168	138
65°	91	91	91
70°	45	45	45
75°	0	30	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 1277 cd/sqm



TEST NUMBER: P741107

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9027-4LBSQW1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	28.3
10°-20°	244.5	45.5
20°-30°	105.6	19.7
30°-40°	24.1	4.5
40°-50°	8.3	1.5
50°-60°	2.0	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°	501.9	93.5
0°-40°	526.0	98.0
0°-60°	536.3	99.9
0°-90°	536.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	536.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1726	1726	1726	1726	1726	
5°	1670	1669	1668	1672	1670	152
15°	915	904	910	907	906	245
25°	215	223	243	218	211	103
35°	36	37	35	34	29	24
45°	10	12	12	12	10	7
55°	2	2	3	2	2	1
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P741107

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9027-4LBSQW1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1726.3	1726.3	1726.3	1726.3	1726.3
2.5°	1714.8	1713.6	1714.3	1715.2	1715.5
5°	1670.3	1668.7	1668.4	1671.9	1670.4
7.5°	1580.6	1578.3	1574.8	1582.7	1590.1
10°	1430.2	1427.7	1420.1	1423.9	1429.9
12.5°	1208.2	1200.0	1199.9	1211.7	1210.1
15°	915.2	904.2	910.4	907.4	905.8
17.5°	615.5	611.2	619.4	617.0	606.4
20°	442.8	443.9	459.4	451.5	442.1
22.5°	323.1	327.0	345.4	325.4	318.0
25°	215.1	223.2	242.6	217.5	210.7
27.5°	132.3	136.0	155.6	130.6	126.9
30°	82.3	80.4	89.7	76.9	71.7
32.5°	54.0	51.6	54.6	49.0	44.7
35°	36.1	36.8	34.6	34.3	29.0
37.5°	22.5	26.0	22.9	24.4	18.6
40°	14.6	18.8	16.2	17.9	13.8
42.5°	12.0	14.5	13.3	14.2	12.2
45°	9.5	11.8	11.8	11.8	9.6
47.5°	5.3	7.9	10.1	8.1	5.6
50°	3.0	4.0	7.8	4.1	3.2
52.5°	2.1	2.3	5.3	2.3	2.1
55°	1.5	1.6	2.9	1.7	1.6
57.5°	1.2	1.3	1.5	1.3	1.2
60°	0.9	0.9	1.1	1.0	0.9
62.5°	0.7	0.7	0.7	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5
67.5°	0.2	0.3	0.3	0.3	0.3
70°	0.2	0.2	0.2	0.2	0.2
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)