

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: P741141

Luminaire Tested: LD4D08D010-EU4DR300210IC9040-4LBDP1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P741141  
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-EU4DR300210IC9040-4LBDP1MW  
Description: 4 INCH ROUND 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: 706.4 lumens  
Efficiency: N/A  
Efficacy: 79.4 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 (A<sub>in</sub>): 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



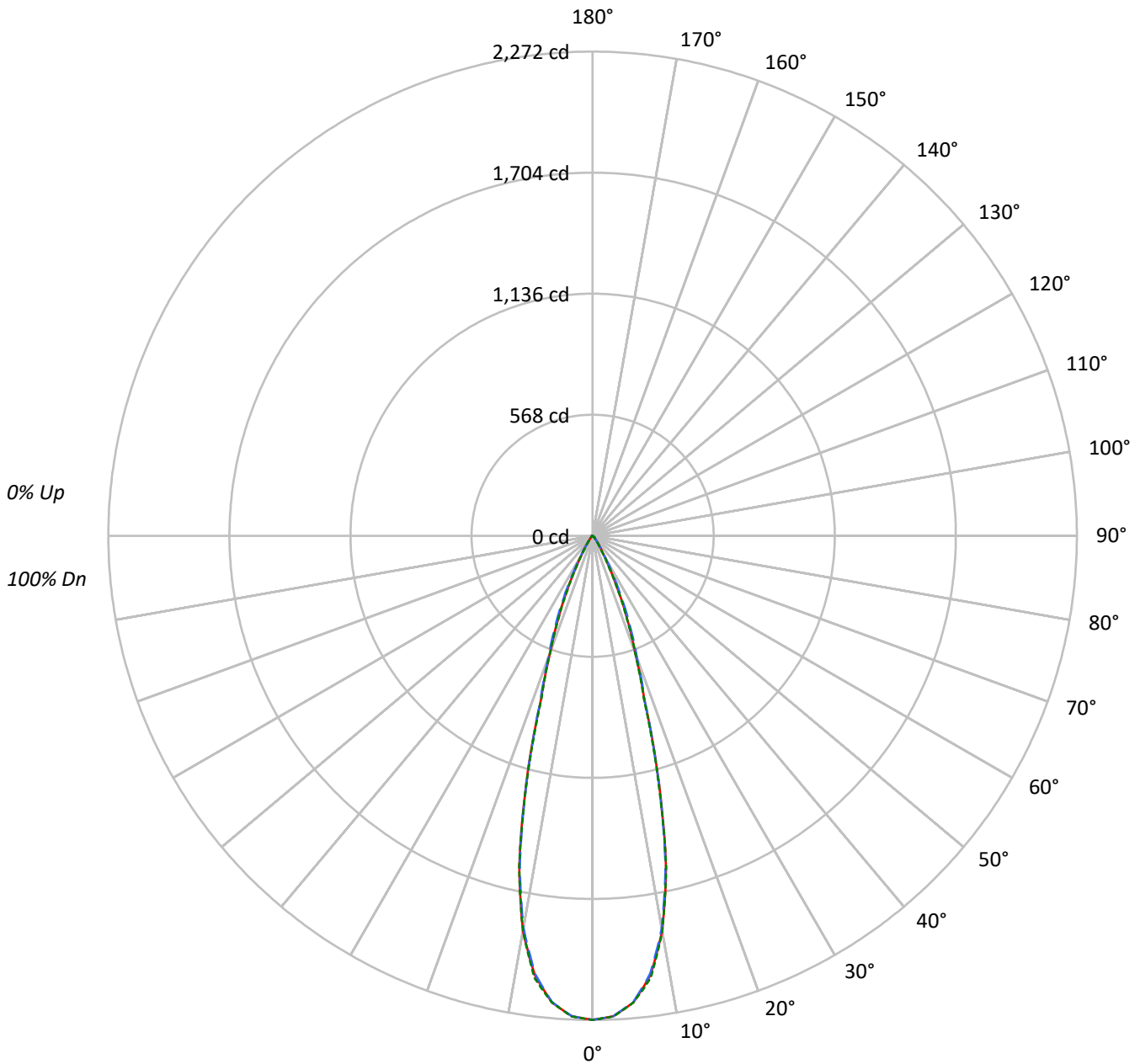
Downlight



TEST NUMBER: P741141

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9040-4LBDP1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P741141

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9040-4LBDP1MW

**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	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°	173876	173876	173876
5°	168885	168685	168893
10°	146277	145243	146246
15°	95441	94926	94450
20°	47456	49240	47391
25°	23901	26958	23420
30°	9572	10429	8344
35°	4439	4252	3569
40°	1918	2128	1799
45°	1353	1678	1364
50°	464	1227	488
55°	267	507	280
60°	184	214	184
65°	127	127	127
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: 1678 cd/sqm



TEST NUMBER: P741141

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9040-4LBDP1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.8	28.3
10°-20°	321.7	45.5
20°-30°	139.0	19.7
30°-40°	31.7	4.5
40°-50°	10.9	1.5
50°-60°	2.7	0.4
60°-70°	0.7	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°	660.5	93.5
0°-40°	692.2	98.0
0°-60°	705.7	99.9
0°-90°	706.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	706.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2272	2272	2272	2272	2272	
5°	2198	2196	2195	2200	2198	200
15°	1204	1190	1198	1194	1192	322
25°	283	294	319	286	277	135
35°	48	48	46	45	38	32
45°	12	16	16	16	13	9
55°	2	2	4	2	2	2
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P741141

CATALOG NUMBER: LD4D08D010-EU4DR300210IC9040-4LBDP1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2271.6	2271.6	2271.6	2271.6	2271.6
2.5°	2256.5	2255.0	2255.9	2257.0	2257.4
5°	2198.0	2195.9	2195.4	2200.0	2198.1
7.5°	2079.9	2076.9	2072.3	2082.7	2092.4
10°	1882.0	1878.7	1868.7	1873.7	1881.6
12.5°	1589.9	1579.1	1578.9	1594.5	1592.4
15°	1204.4	1189.9	1197.9	1194.0	1191.9
17.5°	809.9	804.4	815.0	811.8	797.9
20°	582.6	584.1	604.5	594.2	581.8
22.5°	425.1	430.4	454.6	428.2	418.4
25°	283.0	293.8	319.2	286.3	277.3
27.5°	174.1	179.0	204.8	171.9	167.0
30°	108.3	105.8	118.0	101.2	94.4
32.5°	71.0	67.9	71.8	64.5	58.9
35°	47.5	48.5	45.5	45.1	38.2
37.5°	29.7	34.1	30.1	32.1	24.5
40°	19.2	24.8	21.3	23.5	18.0
42.5°	15.7	19.1	17.5	18.6	16.0
45°	12.5	15.5	15.5	15.5	12.6
47.5°	6.9	10.4	13.3	10.6	7.3
50°	3.9	5.2	10.3	5.4	4.1
52.5°	2.7	3.0	7.0	3.2	2.8
55°	2.0	2.1	3.8	2.2	2.1
57.5°	1.5	1.7	2.0	1.7	1.5
60°	1.2	1.2	1.4	1.3	1.2
62.5°	0.9	0.9	1.0	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7
67.5°	0.3	0.5	0.5	0.5	0.5
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)