

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: P740874

Luminaire Tested: LD4D08D010-EU4DR150210IC9027-4LBSQW1MW

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P740874  
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-EU4DR150210IC9027-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 664.1 lumens  
Efficiency: N/A  
Efficacy: 74.6 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 (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

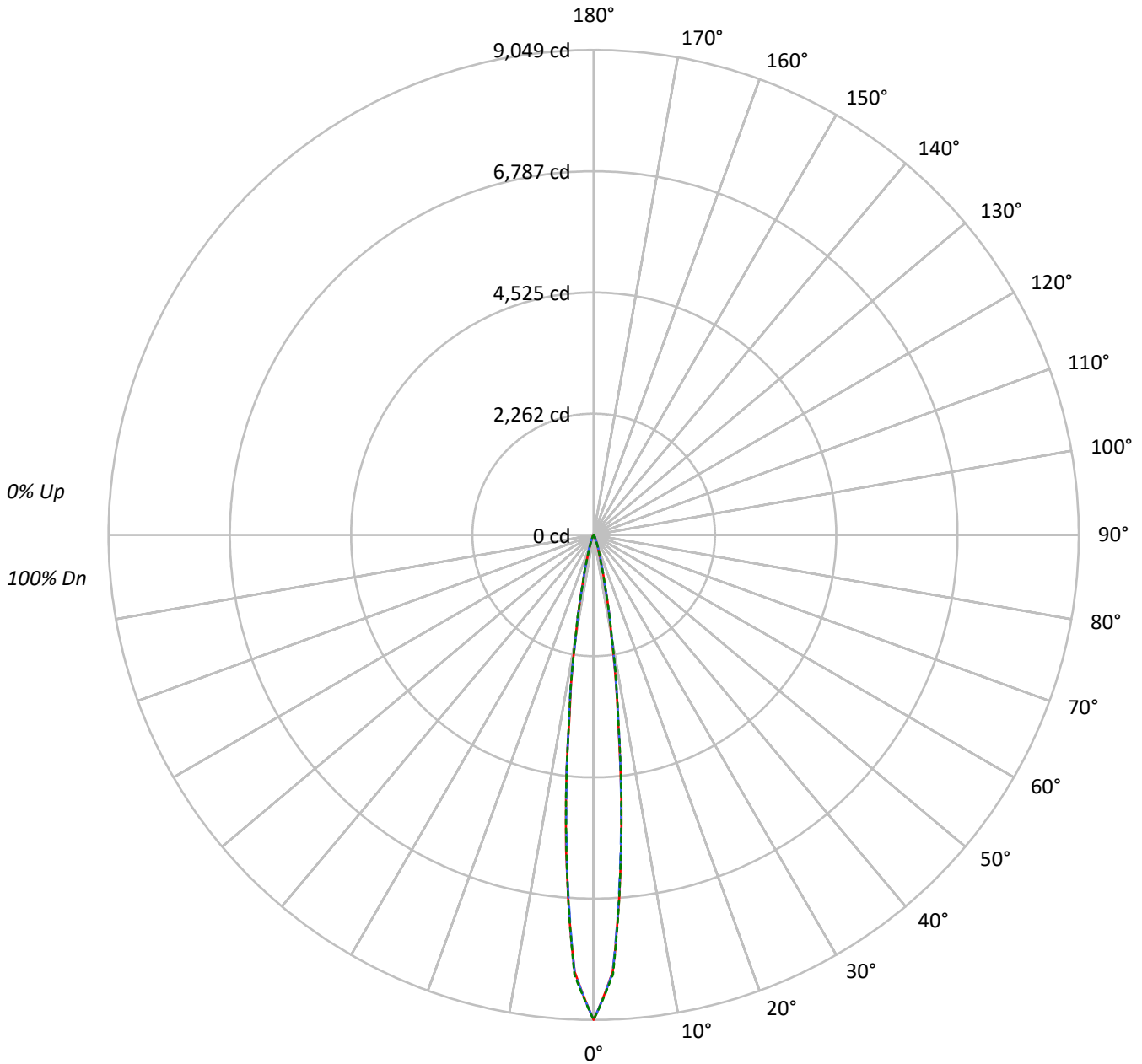


Downlight



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### Luminous Intensity Polar Plot





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**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	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98																			
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96																			
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94																			
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93																			
5	106	101	98	95	104	100	97	95	98	96	94	97	95	93	96	94	92	92																			
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90																			
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89																			
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88																			
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87																			
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1018159	1018159	1018159
5°	598320	590576	595240
10°	178572	179822	182575
15°	44419	45278	43889
20°	13288	15391	13574
25°	4682	5967	4744
30°	1722	2269	1752
35°	864	973	835
40°	547	597	547
45°	399	427	399
50°	320	320	320
55°	264	264	264
60°	218	218	218
65°	164	164	164
70°	139	139	139
75°	83	83	113
80°	63	63	63
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 427 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	430.7	64.9
10°-20°	177.2	26.7
20°-30°	35.2	5.3
30°-40°	8.8	1.3
40°-50°	4.6	0.7
50°-60°	3.4	0.5
60°-70°	2.4	0.4
70°-80°	1.3	0.2
80°-90°	0.4	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°	643.1	96.8
0°-40°	651.9	98.2
0°-60°	659.9	99.4
0°-90°	664.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	664.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	9049	9049	9049	9049	9049	
5°	5887	5827	5811	5851	5857	430
15°	511	521	521	512	505	175
25°	60	68	77	68	61	32
35°	12	13	13	13	12	8
45°	6	6	6	6	6	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	9048.7	9048.7	9048.7	9048.7	9048.7
2.5°	8162.3	8169.2	8171.9	8179.9	8209.8
5°	5887.3	5826.8	5811.1	5851.3	5857.0
7.5°	3487.4	3499.7	3544.5	3554.4	3518.4
10°	1913.8	1929.5	1927.2	1941.0	1956.7
12.5°	978.7	966.5	962.6	978.3	956.5
15°	511.4	521.0	521.3	512.2	505.3
17.5°	275.0	286.1	304.5	289.6	266.6
20°	162.4	172.4	188.1	175.8	165.9
22.5°	100.4	108.4	119.5	109.9	101.9
25°	60.1	68.2	76.6	67.8	60.9
27.5°	35.6	42.5	47.9	42.1	35.2
30°	23.0	26.8	30.3	26.4	23.4
32.5°	16.1	17.6	19.2	17.6	16.1
35°	11.9	12.6	13.4	12.6	11.5
37.5°	9.2	10.0	10.3	9.6	8.8
40°	7.7	8.0	8.4	8.0	7.7
42.5°	6.5	6.9	6.9	6.9	6.5
45°	5.7	5.7	6.1	5.7	5.7
47.5°	5.0	5.0	5.4	5.0	5.0
50°	4.6	4.6	4.6	4.6	4.6
52.5°	4.2	4.2	4.2	4.2	4.2
55°	3.8	3.8	3.8	3.8	3.8
57.5°	3.4	3.4	3.4	3.4	3.4
60°	3.1	3.1	3.1	3.1	3.1
62.5°	2.7	2.7	2.7	2.7	2.7
65°	2.3	2.3	2.3	2.3	2.3
67.5°	2.3	2.3	2.3	2.3	2.3
70°	1.9	1.9	1.9	1.9	1.9
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.8	0.8	0.8	0.8	0.8
82.5°	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4
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



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - - 90°-270°

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