

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: P746028

Luminaire Tested: LD4D30D010-EU4DR3020359040-4LBSQW1B

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P746028  
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: LD4D30D010-EU4DR3020359040-4LBSQW1B  
Description: 4 INCH SQAURE DEEP 45° CUTOFF SPECULAR BLACK TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2154.6 lumens  
Efficiency: N/A  
Efficacy: 74.3 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): 29  
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



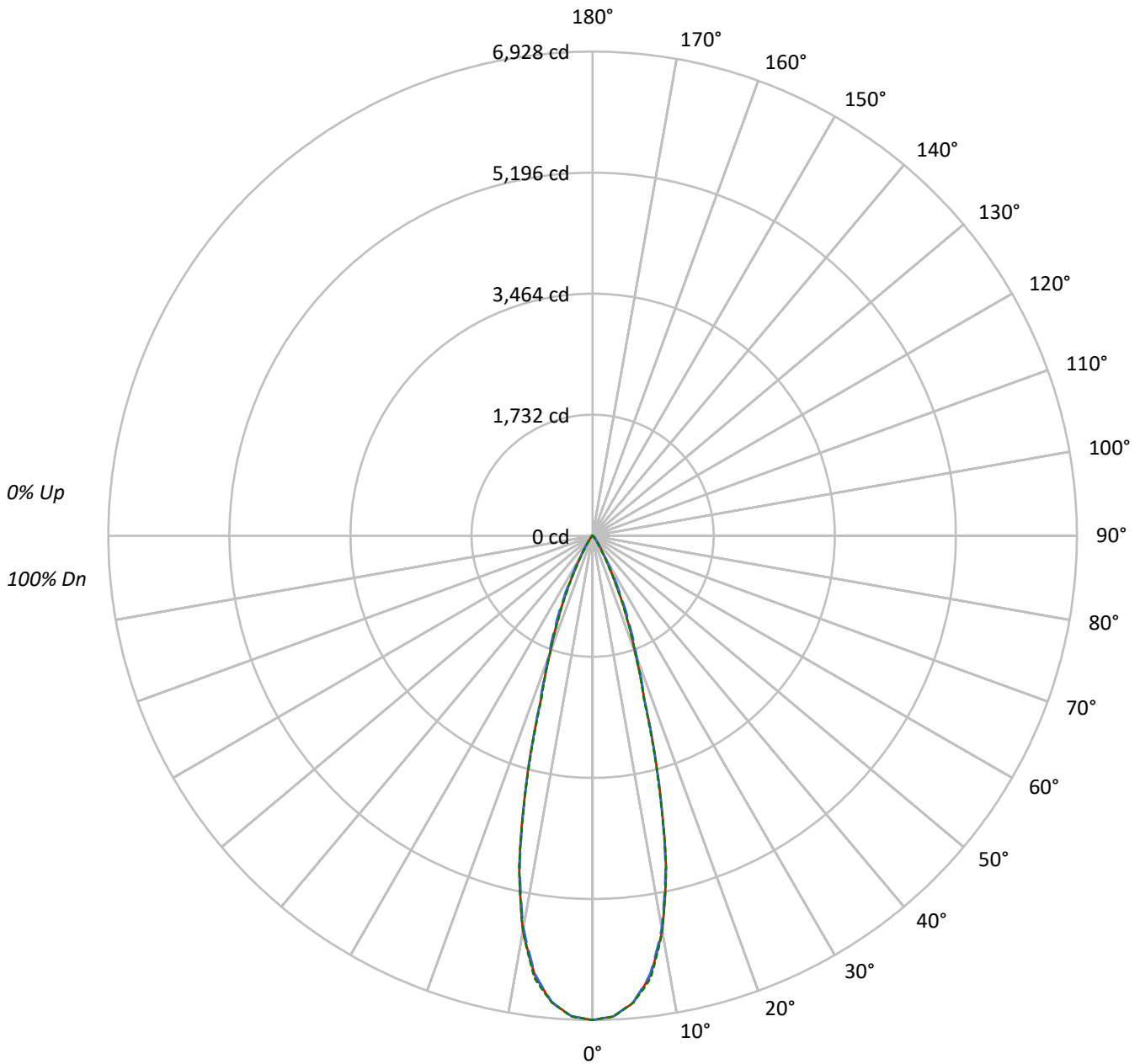
Downlight



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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	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°	530293	530293	530293
5°	515069	514469	515099
10°	446129	442981	446020
15°	291077	289516	288058
20°	144739	150172	144543
25°	72911	82218	71416
30°	29193	31810	25428
35°	13540	12970	10867
40°	5845	6495	5506
45°	4124	5120	4157
50°	1417	3727	1500
55°	814	1548	867
60°	566	674	566
65°	380	380	380
70°	224	157	224
75°	0	89	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 22.5°  
 Vertical Angle: 45°  
 Luminance: 5120 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	609.2	28.3
10°-20°	981.1	45.5
20°-30°	424.0	19.7
30°-40°	96.6	4.5
40°-50°	33.2	1.5
50°-60°	8.1	0.4
60°-70°	2.1	0.1
70°-80°	0.2	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°	2014.3	93.5
0°-40°	2111.0	98.0
0°-60°	2152.3	99.9
0°-90°	2154.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2154.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6928	6928	6928	6928	6928	
5°	6704	6697	6696	6710	6704	610
15°	3673	3629	3654	3642	3635	984
25°	863	896	974	873	846	413
35°	145	148	139	138	116	98
45°	38	47	47	47	38	27
55°	6	6	12	7	6	6
65°	2	2	2	2	2	2
75°	0	0	0	0	0	0
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°	6928.0	6928.0	6928.0	6928.0	6928.0
2.5°	6882.1	6877.3	6880.1	6883.4	6884.8
5°	6703.5	6697.1	6695.7	6709.7	6703.9
7.5°	6343.3	6334.1	6320.2	6351.8	6381.4
10°	5739.9	5729.7	5699.4	5714.4	5738.5
12.5°	4849.1	4816.1	4815.4	4863.0	4856.6
15°	3673.2	3629.0	3653.5	3641.6	3635.1
17.5°	2470.1	2453.1	2485.7	2475.9	2433.4
20°	1776.9	1781.3	1843.6	1812.3	1774.5
22.5°	1296.6	1312.6	1386.4	1305.8	1276.2
25°	863.3	895.9	973.5	873.1	845.6
27.5°	531.0	545.9	624.5	524.1	509.2
30°	330.3	322.8	359.9	308.8	287.7
32.5°	216.7	207.1	219.0	196.6	179.6
35°	144.9	147.9	138.8	137.7	116.3
37.5°	90.5	104.1	91.8	98.0	74.8
40°	58.5	75.5	65.0	71.8	55.1
42.5°	48.0	58.2	53.4	56.8	49.0
45°	38.1	47.3	47.3	47.3	38.4
47.5°	21.1	31.6	40.5	32.3	22.5
50°	11.9	16.0	31.3	16.7	12.6
52.5°	8.1	9.2	21.4	9.5	8.5
55°	6.1	6.5	11.6	6.8	6.5
57.5°	4.8	5.1	6.1	5.1	4.8
60°	3.7	3.7	4.4	4.1	3.7
62.5°	2.7	2.7	3.0	2.7	2.7
65°	2.1	2.1	2.1	2.1	2.1
67.5°	1.0	1.4	1.4	1.4	1.4
70°	1.0	0.7	0.7	0.7	1.0
72.5°	0.7	0.3	0.3	0.3	0.3
75°	0.0	0.0	0.3	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



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Scaled Data Report







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

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