

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: P745990

Luminaire Tested: LD4D30D010-EU4DR3020359027-4LBSQW1MW

Issue Date: 1/30/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P745990  
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-EU4DR3020359027-4LBSQW1MW  
Description: 4 INCH SQAURE DEEP 45° CUTOFF MATTE WHITE TRIM, WITH 30° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2129.5 lumens  
Efficiency: N/A  
Efficacy: 73.4 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): 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



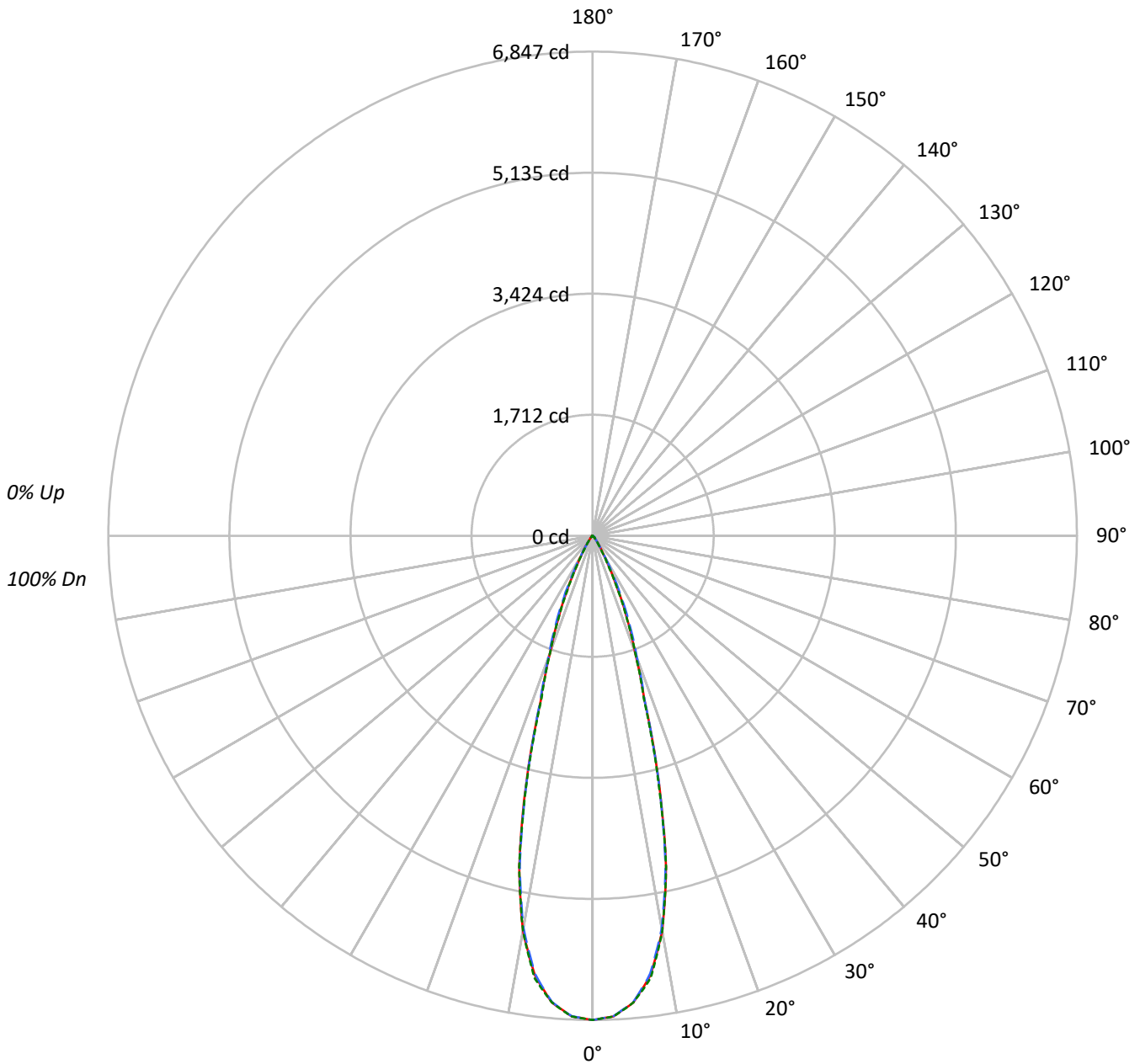
Downlight



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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°	524116	524116	524116
5°	509068	508476	509099
10°	440929	437820	440828
15°	287686	286141	284698
20°	143053	148421	142865
25°	72058	81264	70589
30°	28849	31438	25137
35°	13381	12820	10746
40°	5775	6415	5446
45°	4070	5066	4113
50°	1393	3680	1477
55°	814	1521	854
60°	566	674	566
65°	362	362	362
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: 5066 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	602.1	28.3
10°-20°	969.7	45.5
20°-30°	419.0	19.7
30°-40°	95.5	4.5
40°-50°	32.8	1.5
50°-60°	8.0	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°	1990.9	93.5
0°-40°	2086.4	98.0
0°-60°	2127.2	99.9
0°-90°	2129.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2129.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6847	6847	6847	6847	6847	
5°	6625	6619	6618	6631	6626	603
15°	3630	3587	3611	3599	3593	972
25°	853	886	962	863	836	408
35°	143	146	137	136	115	97
45°	38	47	47	47	38	27
55°	6	6	11	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°	6847.3	6847.3	6847.3	6847.3	6847.3
2.5°	6801.9	6797.2	6799.9	6803.3	6804.6
5°	6625.4	6619.0	6617.7	6631.4	6625.8
7.5°	6269.4	6260.3	6246.5	6277.8	6307.0
10°	5673.0	5662.9	5633.0	5647.8	5671.7
12.5°	4792.6	4760.0	4759.3	4806.4	4800.0
15°	3630.4	3586.7	3610.9	3599.2	3592.7
17.5°	2441.3	2424.5	2456.8	2447.1	2405.0
20°	1756.2	1760.6	1822.1	1791.2	1753.9
22.5°	1281.5	1297.3	1370.3	1290.6	1261.4
25°	853.2	885.5	962.2	863.0	835.8
27.5°	524.8	539.5	617.2	518.1	503.3
30°	326.4	319.0	355.7	305.3	284.4
32.5°	214.2	204.7	216.5	194.3	177.5
35°	143.2	146.2	137.2	136.1	115.0
37.5°	89.4	102.8	90.8	96.8	74.0
40°	57.8	74.7	64.2	70.9	54.5
42.5°	47.4	57.5	52.8	56.1	48.4
45°	37.6	46.8	46.8	46.8	38.0
47.5°	20.9	31.3	40.0	31.9	22.2
50°	11.7	15.8	30.9	16.5	12.4
52.5°	8.1	9.1	21.2	9.4	8.4
55°	6.1	6.4	11.4	6.7	6.4
57.5°	4.7	5.0	6.1	5.0	4.7
60°	3.7	3.7	4.4	4.0	3.7
62.5°	2.7	2.7	3.0	2.7	2.7
65°	2.0	2.0	2.0	2.0	2.0
67.5°	1.0	1.3	1.3	1.3	1.3
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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