

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845100

Luminaire Tested: **SQ4P-PP3-0U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P563482)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-0U-075D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

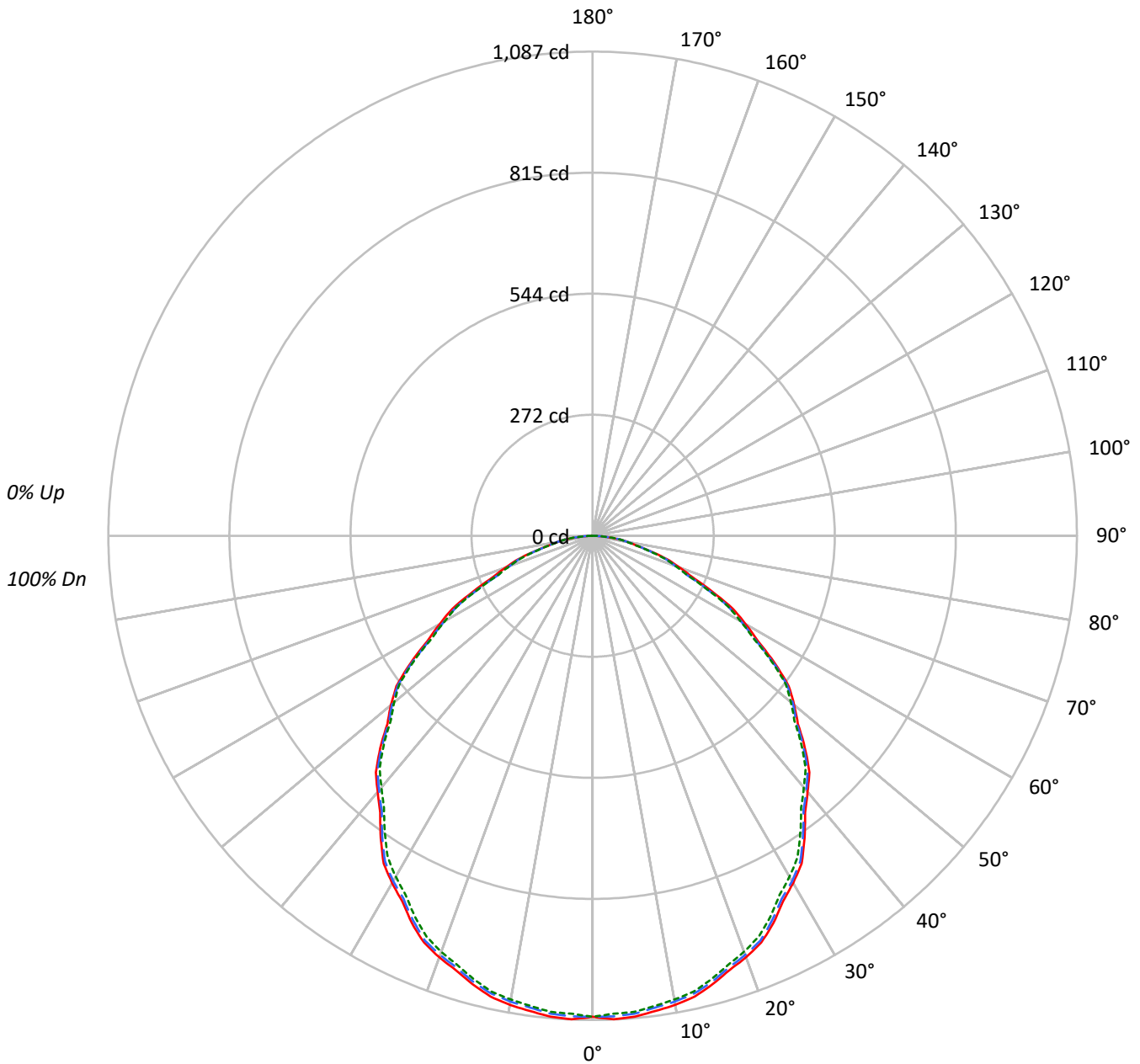
Lumens per Lamp: N/A  
Luminaire Lumens: 2763.8 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 25.6  
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: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				
RC	80				70				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			100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85			85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72			72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			61
4	84	72	64	57	82	71	63	57	69	62	56	66	60	56	64	59	55	53			53
5	77	65	56	50	75	64	56	49	62	54	49	60	53	48	58	52	48	46			46
6	72	59	50	44	70	58	49	43	56	49	43	54	48	43	53	47	42	40			40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36			36
8	62	49	40	35	60	48	40	34	47	39	34	45	39	34	44	38	34	32			32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29			29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26			26

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

	0°	45°	90°
0°	9963	9963	9963
5°	10036	9974	9938
10°	10020	9948	9904
15°	9953	9898	9844
20°	9887	9830	9756
25°	9770	9703	9607
30°	9589	9538	9417
35°	9337	9274	9156
40°	9038	8981	8880
45°	8793	8730	8644
50°	8476	8423	8341
55°	8036	7933	7872
60°	7316	7110	7073
65°	6449	6178	6156
70°	5562	5336	5336
75°	4791	4723	4652
80°	4224	4272	4171
85°	3303	3610	3610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.1	3.7
10°-20°	291.6	10.5
20°-30°	436.7	15.8
30°-40°	512.2	18.5
40°-50°	513.8	18.6
50°-60°	438.4	15.9
60°-70°	285.9	10.3
70°-80°	143.4	5.2
80°-90°	39.7	1.4
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°	830.4	30.0
0°-40°	1342.6	48.6
0°-60°	2294.8	83.0
0°-90°	2763.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2763.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1084	1074	1077	1073	1073	103
15°	1042	1032	1036	1032	1031	294
25°	960	948	953	944	944	441
35°	829	821	823	814	813	518
45°	674	669	669	662	662	519
55°	500	498	493	490	489	444
65°	295	290	283	281	282	295
75°	134	134	132	132	130	146
85°	31	34	34	34	34	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1086.6	1077.8	1079.9	1078.3	1073.8
5°	1083.6	1073.5	1076.9	1073.1	1073.1
7.5°	1076.2	1065.2	1068.6	1064.9	1064.7
10°	1069.5	1058.3	1061.9	1058.0	1057.2
12.5°	1059.7	1048.5	1052.8	1048.2	1048.0
15°	1042.0	1031.8	1036.3	1032.4	1030.6
17.5°	1022.1	1011.0	1016.5	1011.2	1010.3
20°	1007.0	995.8	1001.2	993.7	993.7
22.5°	988.8	977.7	983.9	974.0	974.0
25°	959.7	948.5	953.1	944.4	943.7
27.5°	925.1	914.1	918.9	909.1	908.9
30°	900.1	889.8	895.3	884.9	883.9
32.5°	872.8	863.3	867.3	856.8	855.9
35°	829.0	820.8	823.4	813.9	812.9
37.5°	783.1	774.6	777.5	769.3	769.0
40°	750.4	744.9	745.7	739.0	737.3
42.5°	720.2	713.9	714.7	708.0	707.7
45°	673.9	669.1	669.1	662.5	662.5
47.5°	624.7	621.1	620.1	614.5	614.4
50°	590.5	587.7	586.8	582.0	581.1
52.5°	555.0	553.6	550.4	546.5	546.3
55°	499.6	497.8	493.2	490.2	489.4
57.5°	439.8	436.0	430.7	426.6	427.2
60°	396.5	392.8	385.3	383.3	383.3
62.5°	354.9	350.5	342.9	340.2	341.7
65°	295.4	289.7	283.0	281.1	282.0
67.5°	241.2	236.1	228.8	228.8	228.1
70°	206.2	203.5	197.8	197.8	197.8
72.5°	175.2	173.9	169.9	169.7	169.0
75°	134.4	134.4	132.5	131.5	130.5
77.5°	100.7	101.0	100.2	99.2	97.4
80°	79.5	81.4	80.4	79.5	78.5
82.5°	59.9	61.6	61.5	59.9	59.6
85°	31.2	33.9	34.1	34.1	34.1
87.5°	8.3	11.2	12.1	12.1	12.9
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG







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







(END OF REPORT)