

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: P845017

Luminaire Tested: **SQ4P-PC3-0U-075D-B50-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P562810)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PC3-0U-075D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

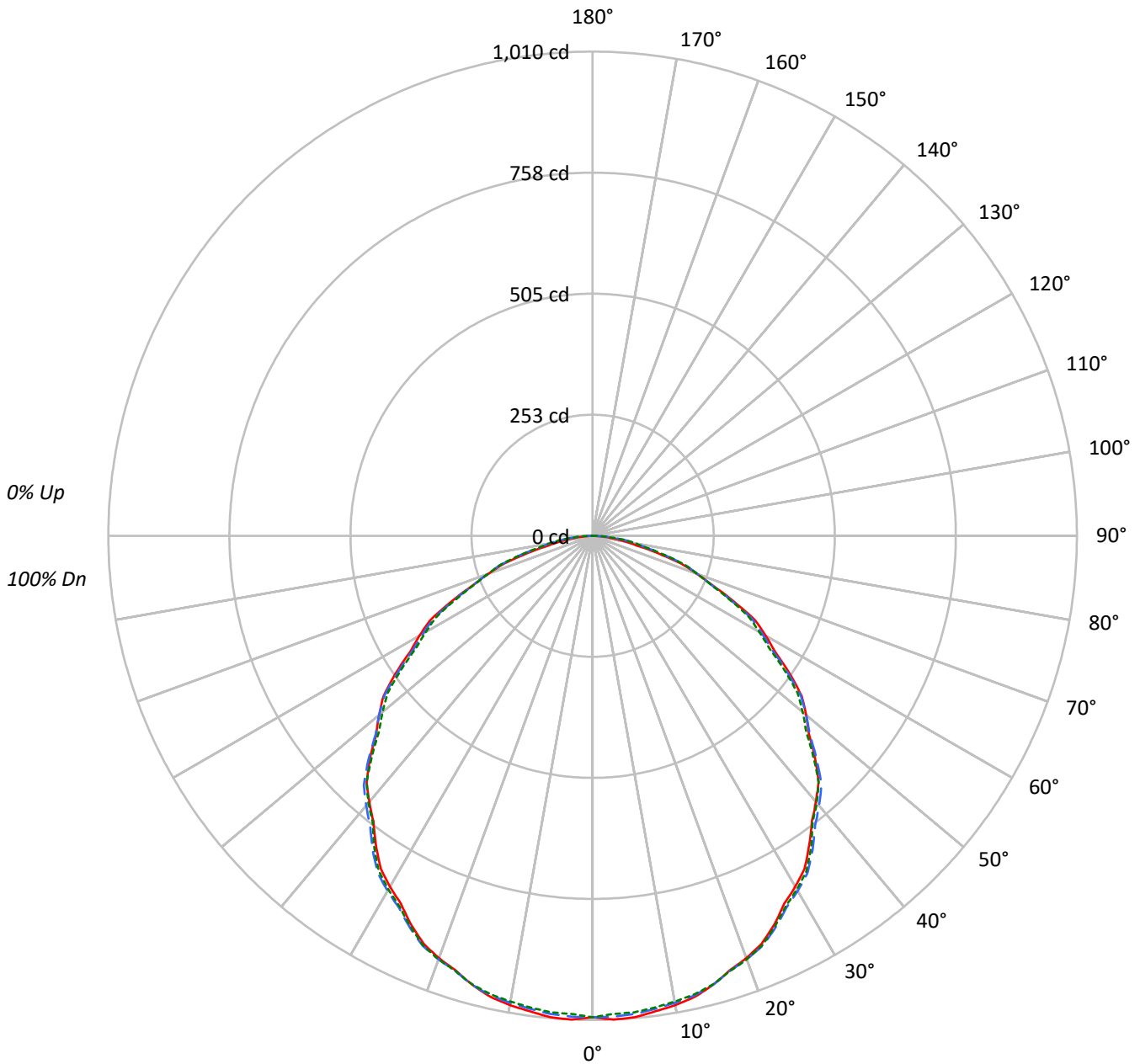
Lumens per Lamp: N/A  
Luminaire Lumens: 2740.9 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

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									
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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85																			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71																			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60																			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51																			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44																			
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28																			
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25																			

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

	0°	45°	90°
0°	9265	9265	9265
5°	9336	9274	9241
10°	9313	9269	9243
15°	9264	9264	9256
20°	9204	9230	9230
25°	9117	9181	9154
30°	9004	9114	9075
35°	8871	9007	8944
40°	8723	8847	8760
45°	8566	8627	8493
50°	8342	8342	8209
55°	8078	7972	7853
60°	7687	7532	7412
65°	7104	6962	6901
70°	6223	6269	6248
75°	5005	5536	5572
80°	3560	4692	4745
85°	2181	3938	3938



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	95.0	3.5
10°-20°	272.7	10.0
20°-30°	413.0	15.1
30°-40°	495.2	18.1
40°-50°	504.9	18.4
50°-60°	440.8	16.1
60°-70°	315.5	11.5
70°-80°	162.5	5.9
80°-90°	41.1	1.5
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°	780.8	28.5
0°-40°	1276.0	46.6
0°-60°	2221.7	81.1
0°-90°	2740.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2740.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1008	998	1001	999	998	96
15°	970	962	970	970	969	273
25°	896	889	902	899	899	412
35°	788	786	800	794	794	493
45°	656	655	661	653	651	505
55°	502	496	496	488	488	448
65°	325	318	319	316	316	322
75°	140	147	155	156	156	152
85°	21	31	37	38	37	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1004.2	1004.2	1004.2	1004.2	1004.2
2.5°	1010.3	1001.4	1004.2	1002.0	998.3
5°	1008.1	997.9	1001.4	998.6	997.8
7.5°	1000.7	990.8	995.4	993.4	992.5
10°	994.1	984.0	989.4	987.5	986.6
12.5°	985.2	975.8	981.9	980.2	979.8
15°	969.9	961.7	969.9	969.9	969.0
17.5°	950.7	943.3	951.9	952.6	951.9
20°	937.4	929.2	940.1	939.2	940.1
22.5°	921.0	914.3	925.9	923.6	924.5
25°	895.6	889.1	901.9	899.2	899.2
27.5°	865.4	860.7	874.8	871.8	871.8
30°	845.2	840.7	855.5	851.8	851.8
32.5°	822.9	819.9	834.0	829.5	829.5
35°	787.6	785.7	799.7	794.1	794.1
37.5°	751.1	749.5	762.2	755.4	753.2
40°	724.3	723.5	734.6	727.3	727.3
42.5°	697.5	696.6	706.4	697.5	697.5
45°	656.5	654.6	661.2	652.7	650.9
47.5°	611.7	609.9	613.9	604.7	603.8
50°	581.2	579.3	581.2	572.7	571.9
52.5°	550.0	546.6	546.9	538.6	538.4
55°	502.2	495.8	495.6	488.2	488.2
57.5°	451.5	443.2	444.0	437.6	436.6
60°	416.6	407.5	408.2	402.6	401.7
62.5°	382.3	371.9	374.0	367.7	367.6
65°	325.4	318.2	318.9	316.1	316.1
67.5°	270.8	264.0	268.9	266.8	266.6
70°	230.7	226.0	232.4	232.4	231.6
72.5°	193.5	193.3	201.2	201.2	201.8
75°	140.4	146.8	155.3	156.3	156.3
77.5°	93.8	105.0	114.4	114.7	114.6
80°	67.0	79.7	88.3	90.3	89.3
82.5°	45.3	58.8	66.1	67.8	67.0
85°	20.6	31.4	37.2	38.2	37.2
87.5°	5.9	12.5	14.9	14.9	13.4
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)