

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: P845148

Luminaire Tested: **SQ4P-PR1-025U-075D-B40-1D-UNV**

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845148  
REPORT IS A COMBINATION OF REPORTS P700176 AND P700243  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PR1-025U-075D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

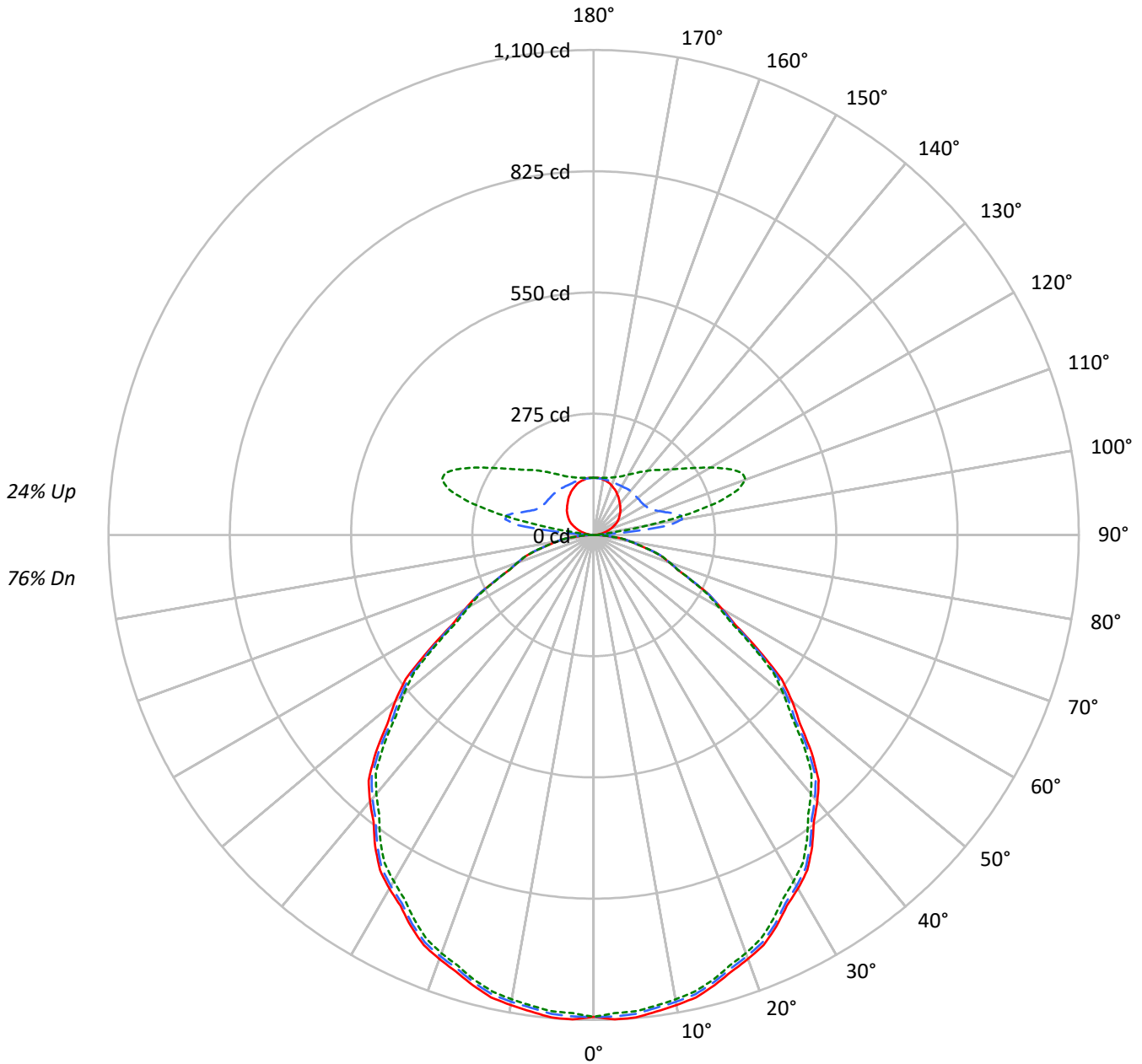
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3575.8 lumens  
Efficiency: N/A  
Efficacy: 109.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 32.6  
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				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	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	80	80	80	76
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69	69	69	69	65
2	95	88	82	76	91	84	78	74	77	72	68	70	66	63	64	61	59	59	59	59	55
3	87	78	70	64	83	74	68	62	68	63	58	62	58	54	57	53	50	50	50	50	47
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	51	47	44	44	44	44	41
5	74	62	53	47	70	59	52	46	55	48	43	50	45	41	46	42	38	38	38	38	36
6	68	56	47	41	65	54	46	40	49	43	38	46	40	36	42	37	34	34	34	34	32
7	63	51	42	37	60	49	41	36	45	39	34	42	36	32	38	34	30	30	30	30	28
8	59	46	38	33	56	44	37	32	41	35	30	38	33	29	35	31	27	27	27	27	25
9	55	42	35	29	52	41	34	29	38	32	27	35	30	26	33	28	25	25	25	25	23
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22	22	22	22	21

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

	0°	45°	90°
0°	10085	10085	10085
5°	10176	10099	10046
10°	10143	10074	10021
15°	10100	10037	9981
20°	10049	9983	9911
25°	9977	9911	9796
30°	9869	9800	9661
35°	9725	9640	9503
40°	9501	9400	9230
45°	9117	8956	8771
50°	8433	8230	8068
55°	7359	7195	7044
60°	6204	6152	6028
65°	5366	5386	5344
70°	4926	4950	4950
75°	4734	4734	4766
80°	4447	4500	4447
85°	3589	3991	3991



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.4	2.9
10°-20°	295.8	8.3
20°-30°	446.1	12.5
30°-40°	531.5	14.9
40°-50°	524.0	14.7
50°-60°	400.5	11.2
60°-70°	247.8	6.9
70°-80°	140.8	3.9
80°-90°	43.1	1.2
90°-100°	51.7	1.4
100°-110°	179.8	5.0
110°-120°	174.2	4.9
120°-130°	136.6	3.8
130°-140°	108.2	3.0
140°-150°	83.5	2.3
150°-160°	59.8	1.7
160°-170°	36.6	1.0
170°-180°	12.4	0.3
0°-30°	845.3	23.6
0°-40°	1376.8	38.5
0°-60°	2301.4	64.4
0°-90°	2733.1	76.4
90°-120°	405.7	11.3
90°-150°	734.0	20.5
90°-180°	843.0	23.6
0°-180°	3575.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1099	1087	1090	1086	1085	104
15°	1057	1046	1051	1047	1045	298
25°	980	968	974	963	962	451
35°	863	853	856	845	844	539
45°	699	690	686	674	672	535
55°	458	450	447	440	438	410
65°	246	244	247	245	245	249
75°	133	133	133	134	134	140
85°	34	36	38	38	38	39
90°	2	3	3	2	1	3
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1093.1	1093.1	1093.1	1093.1	1093.1
2.5°	1100.0	1090.4	1093.1	1090.9	1085.6
5°	1098.8	1086.8	1090.4	1086.4	1084.7
7.5°	1090.4	1078.5	1082.1	1078.2	1077.2
10°	1082.7	1071.7	1075.3	1071.5	1069.6
12.5°	1074.5	1062.8	1067.0	1062.5	1060.6
15°	1057.4	1046.4	1050.8	1047.1	1045.0
17.5°	1038.5	1026.7	1031.3	1026.9	1024.5
20°	1023.5	1012.5	1016.8	1010.3	1009.4
22.5°	1007.0	995.9	1000.3	991.5	991.4
25°	980.1	968.2	973.6	963.2	962.3
27.5°	948.3	937.3	941.7	931.2	930.2
30°	926.4	915.4	919.9	908.6	906.8
32.5°	901.6	891.3	895.1	883.8	882.6
35°	863.4	853.3	855.9	844.6	843.7
37.5°	819.9	810.7	812.2	799.7	798.9
40°	788.9	779.9	780.5	767.4	766.4
42.5°	755.2	746.0	745.1	732.0	731.1
45°	698.7	689.5	686.4	674.1	672.2
47.5°	634.3	625.0	619.3	609.2	608.0
50°	587.5	578.3	573.4	564.9	562.1
52.5°	537.1	527.8	523.8	515.9	513.2
55°	457.5	450.2	447.3	439.7	437.9
57.5°	382.1	377.2	376.2	368.9	368.1
60°	336.2	333.4	333.4	326.7	326.7
62.5°	297.0	294.9	296.3	292.0	291.3
65°	245.8	243.9	246.7	244.8	244.8
67.5°	205.3	205.3	206.9	206.1	206.1
70°	182.6	182.6	183.5	183.5	183.5
72.5°	162.3	161.6	164.1	164.0	163.3
75°	132.8	132.8	132.8	133.7	133.7
77.5°	103.4	103.6	104.4	104.2	103.4
80°	83.7	84.7	84.7	83.7	83.7
82.5°	64.2	65.1	65.1	64.9	64.2
85°	33.9	35.7	37.7	37.7	37.7
87.5°	9.7	12.7	15.1	15.1	14.2
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)