

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: P845340

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

Issue Date: 8/14/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P845340  
REPORT IS A COMBINATION OF REPORTS P700240 AND P700245  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-WB-075U-075D-B40-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT  
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

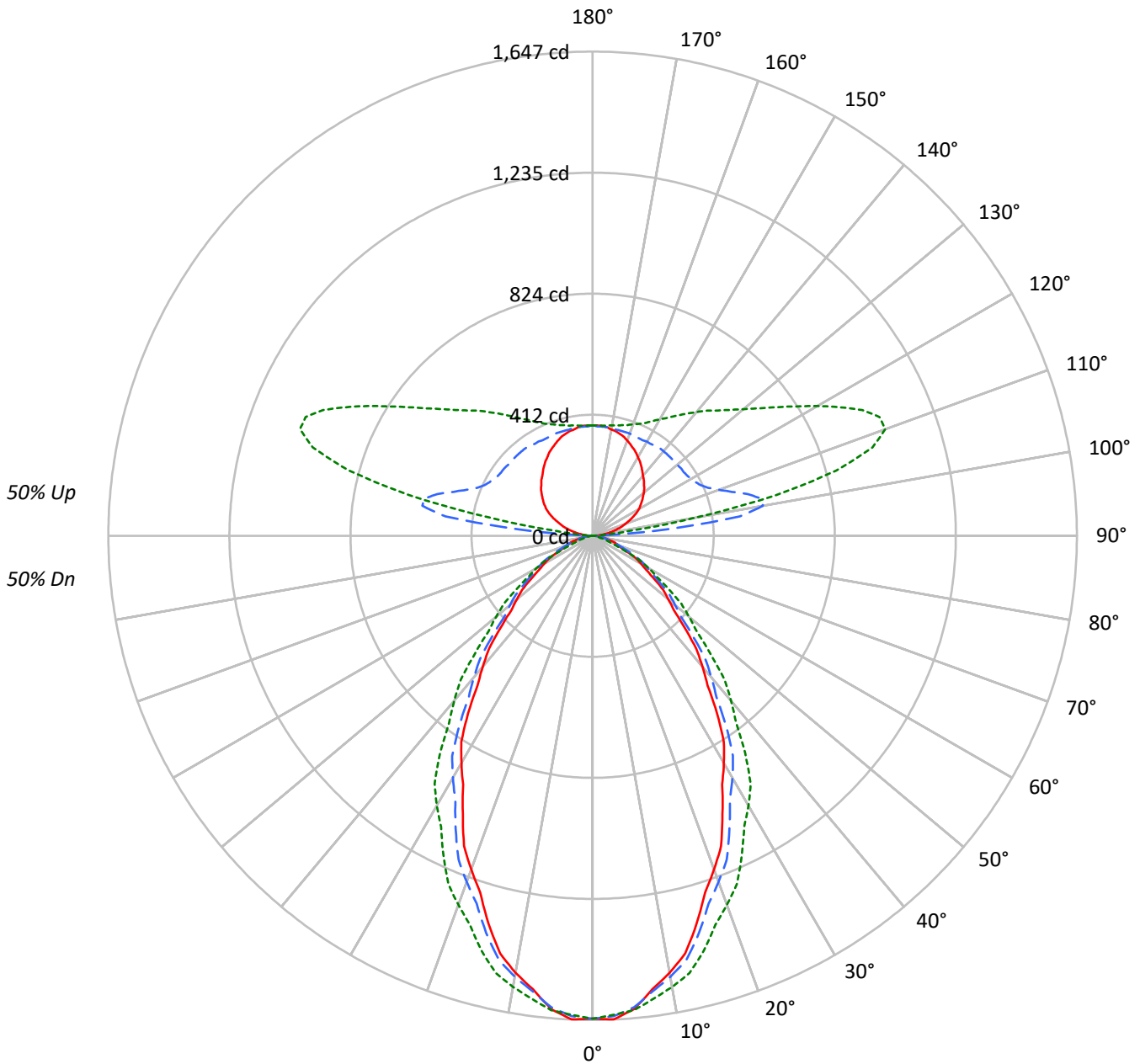
Lumens per Lamp: N/A  
Luminaire Lumens: 4831.0 lumens  
Efficiency: N/A  
Efficacy: 108.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 44.6  
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50								
1	99	95	91	88	91	88	85	82	74	72	70	62	61	60	51	50	49	44								
2	91	84	79	74	84	78	73	69	67	63	60	56	54	52	46	45	43	39								
3	84	75	68	63	77	70	64	59	60	56	52	51	48	45	42	40	38	34								
4	77	67	60	55	71	63	56	52	54	49	46	46	43	40	38	36	34	31								
5	71	61	53	48	66	57	50	45	49	44	40	42	38	35	35	33	31	27								
6	66	55	47	42	61	51	45	40	45	40	36	38	35	32	33	30	28	25								
7	62	50	43	37	57	47	40	36	41	36	32	35	31	28	30	27	25	22								
8	57	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	21								
9	54	42	35	30	50	40	33	29	35	30	26	30	26	24	26	23	21	19								
10	50	39	32	28	47	37	30	26	32	27	24	28	24	22	24	21	19	17								

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

	0°	45°	90°
0°	15155	15155	15155
5°	14966	14912	15000
10°	14140	14268	14599
15°	13052	13357	13955
20°	11854	12298	13112
25°	10633	11211	12217
30°	9506	10128	11287
35°	8312	8913	10189
40°	6996	7553	8820
45°	5774	6272	7364
50°	4820	5255	6135
55°	4092	4509	5065
60°	3499	3910	4043
65°	2786	3288	2611
70°	2471	2568	1594
75°	2289	2082	977
80°	2104	1913	839
85°	1895	1768	688



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.7	3.1
10°-20°	391.9	8.1
20°-30°	507.6	10.5
30°-40°	497.1	10.3
40°-50°	380.5	7.9
50°-60°	253.5	5.2
60°-70°	138.4	2.9
70°-80°	57.7	1.2
80°-90°	17.2	0.4
90°-100°	149.4	3.1
100°-110°	519.9	10.8
110°-120°	503.6	10.4
120°-130°	395.1	8.2
130°-140°	312.7	6.5
140°-150°	241.3	5.0
150°-160°	173.0	3.6
160°-170°	105.8	2.2
170°-180°	35.8	0.7
0°-30°	1050.2	21.7
0°-40°	1547.2	32.0
0°-60°	2181.3	45.2
0°-90°	2394.5	49.6
90°-120°	1172.9	24.3
90°-150°	2122.0	43.9
90°-180°	2437.0	50.4
0°-180°	4831.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1616	1600	1610	1614	1620	150
15°	1366	1362	1398	1436	1461	382
25°	1044	1047	1101	1149	1200	480
35°	738	742	791	845	905	459
45°	442	451	481	517	564	345
55°	254	265	280	291	315	231
65°	128	138	151	132	120	133
75°	64	64	58	40	27	68
85°	18	18	17	11	6	20
90°	6	8	8	6	3	4
95°	25	87	252	64	39	27
105°	87	123	546	922	857	91
115°	151	182	406	857	1011	149
125°	205	252	378	639	762	183
135°	246	277	375	532	602	191
145°	289	308	373	460	499	181
155°	328	339	367	409	423	151
165°	359	362	370	387	390	101
175°	375	375	373	378	375	36
180°	375	375	375	375	375	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1642.6	1642.6	1642.6	1642.6	1642.6
2.5°	1646.6	1632.0	1635.8	1635.6	1631.0
5°	1616.0	1599.6	1610.1	1613.9	1619.6
7.5°	1555.9	1543.7	1562.8	1576.9	1588.3
10°	1509.3	1498.7	1523.0	1543.5	1558.3
12.5°	1455.1	1446.1	1476.4	1503.7	1523.2
15°	1366.5	1361.6	1398.4	1436.3	1461.0
17.5°	1271.9	1269.5	1311.5	1355.9	1387.4
20°	1207.3	1206.6	1252.6	1298.9	1335.5
22.5°	1142.1	1143.6	1192.0	1240.2	1282.0
25°	1044.5	1047.2	1101.3	1149.3	1200.1
27.5°	954.0	955.3	1011.1	1061.9	1116.1
30°	892.3	895.8	950.7	1003.2	1059.5
32.5°	830.7	834.8	888.4	942.6	1000.1
35°	738.0	741.6	791.3	844.7	904.6
37.5°	642.6	647.4	691.6	741.9	801.0
40°	580.9	588.0	627.1	674.6	732.3
42.5°	521.5	530.3	566.5	611.6	663.6
45°	442.5	451.0	480.7	517.1	564.4
47.5°	374.4	384.2	407.1	438.4	478.7
50°	335.8	345.1	366.1	389.3	427.4
52.5°	301.9	311.0	329.8	347.7	380.2
55°	254.4	264.9	280.3	291.1	314.9
57.5°	215.5	225.7	237.9	242.7	257.2
60°	189.6	200.9	211.9	211.3	219.1
62.5°	165.9	175.6	186.5	178.8	179.3
65°	127.6	138.2	150.6	131.7	119.6
67.5°	103.1	105.2	118.1	91.9	77.5
70°	91.6	91.6	95.2	71.1	59.1
72.5°	80.6	80.6	77.3	57.8	45.2
75°	64.2	64.2	58.4	40.1	27.4
77.5°	49.4	48.9	44.7	29.8	19.9
80°	39.6	39.6	36.0	23.6	15.8
82.5°	31.0	31.0	27.9	18.4	11.7
85°	17.9	17.9	16.7	10.8	6.5
87.5°	6.4	6.4	5.7	3.4	2.9
90°	5.6	8.4	8.4	5.6	2.8
92.5°	14.1	42.1	39.2	16.8	14.1
95°	25.2	86.8	252.2	64.4	39.2
97.5°	39.2	98.1	504.3	229.8	123.3
100°	53.2	103.7	588.3	552.0	355.8
102.5°	70.1	112.0	585.6	776.1	638.8
105°	86.8	123.3	546.4	921.8	857.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	134.5	165.3	425.9	927.4	1056.3
115°	151.3	182.1	406.2	857.3	1011.4
117.5°	168.1	201.8	395.1	792.9	947.0
120°	182.1	218.5	386.7	731.3	882.5
122.5°	193.3	235.4	381.0	680.9	818.1
125°	204.6	252.2	378.2	638.8	762.1
127.5°	215.7	263.4	378.2	608.0	711.7
130°	227.0	269.0	375.4	577.2	669.6
132.5°	238.1	271.7	375.4	554.8	633.2
135°	246.5	277.3	375.4	532.3	602.4
137.5°	257.8	283.0	375.4	512.7	577.2
140°	266.2	291.4	375.4	493.1	549.2
142.5°	277.3	299.8	375.4	473.5	523.9
145°	288.6	308.2	372.6	459.5	498.7
147.5°	299.8	316.6	369.8	445.5	476.3
150°	308.2	325.0	369.8	431.4	456.7
152.5°	319.4	333.4	367.0	417.5	439.9
155°	327.8	339.0	367.0	409.0	423.1
157.5°	336.2	347.4	367.0	400.6	411.9
160°	344.6	353.0	369.8	395.1	403.4
162.5°	353.0	358.7	369.8	389.5	395.1
165°	358.7	361.5	369.8	386.7	389.5
167.5°	364.3	367.0	369.8	383.8	383.8
170°	367.0	369.8	372.6	381.0	381.0
172.5°	372.6	372.6	372.6	378.2	378.2
175°	375.4	375.4	372.6	378.2	375.4
177.5°	375.4	375.4	372.6	378.2	375.4
180°	375.4	375.4	375.4	375.4	375.4



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	103.7	137.3	495.9	986.2	997.5
110°	117.6	151.3	456.7	977.8	1059.1



(END OF REPORT)