

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: P845095

Luminaire Tested: **SQ4P-PP3-075U-125D-B50-1D-UNV**

Issue Date: 8/14/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P845095  
REPORT IS A COMBINATION OF REPORTS P700230 AND P700245  
Test Lab: INNOVATION CENTER  
Issue Date: 8/14/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4P-PP3-075U-125D-B50-1D-UNV  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT  
UPLIGHT, 1250 LUMENS PER FOOT DOWNLIGHT  
  
Light Source: -  
Ballast/Driver: -

**Summary**

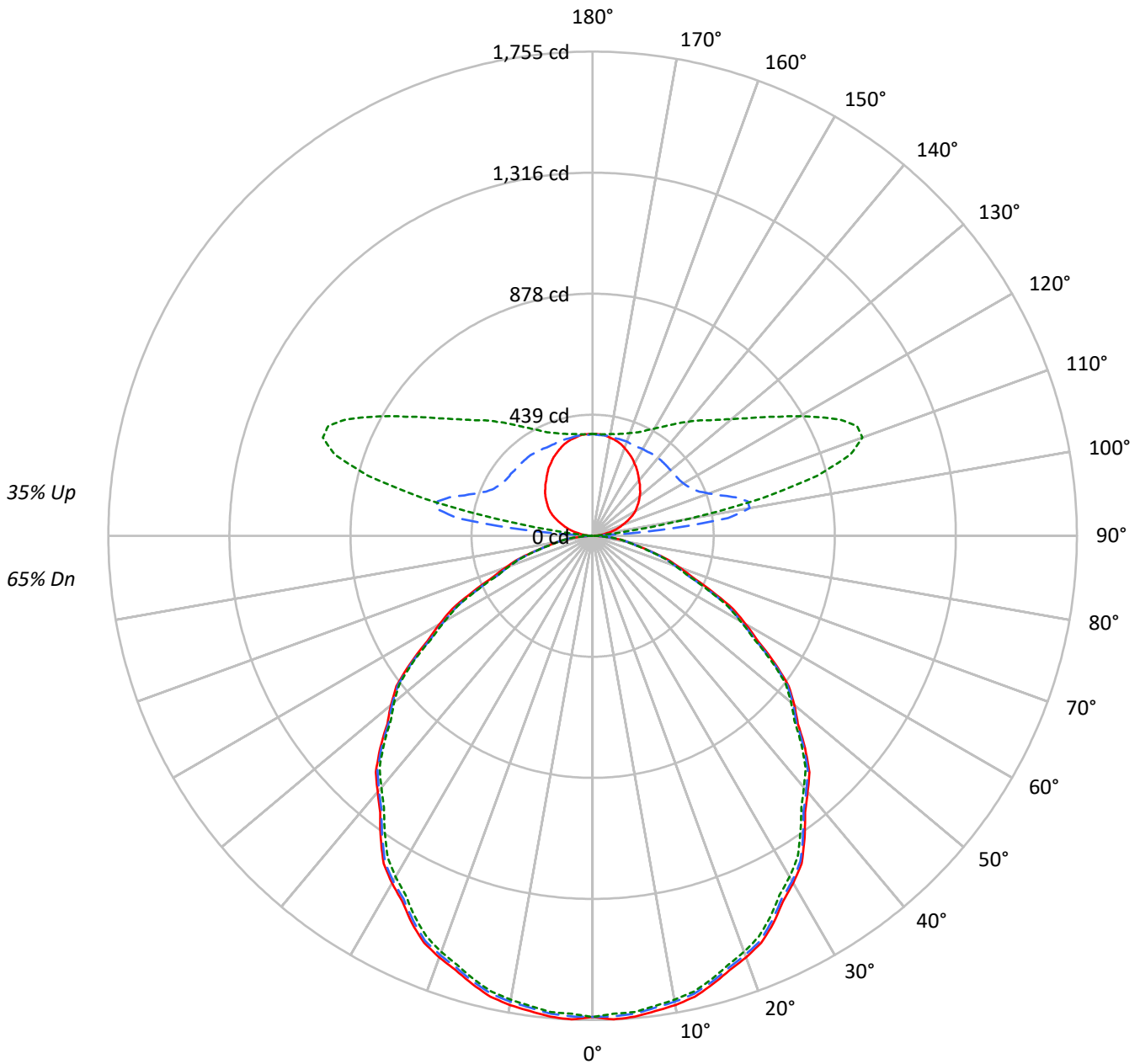
Lumens per Lamp: N/A  
Luminaire Lumens: 6857.7 lumens  
Efficiency: N/A  
Efficacy: 105.8 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 64.8  
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70	70	70	70	65
1	101	97	93	90	95	91	88	85	81	78	76	71	69	68	62	61	60	60	60	60	55
2	93	85	79	74	87	80	75	70	71	67	63	63	60	57	55	53	51	51	51	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	48	49	46	43	43	43	43	40
4	78	67	59	52	73	63	56	50	56	50	46	50	45	42	44	40	37	37	37	37	34
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	33	33	33	30
6	66	53	45	39	62	51	43	38	45	39	35	41	36	32	36	32	29	29	29	29	26
7	61	48	40	35	57	46	38	33	41	35	31	37	32	28	33	29	26	26	26	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	23	23	23	21
9	53	40	33	27	50	38	31	26	35	29	25	31	26	23	28	24	21	21	21	21	19
10	49	37	30	25	46	35	28	24	32	26	22	29	24	21	26	22	19	19	19	19	17

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

	0°	45°	90°
0°	16089	16089	16089
5°	16207	16107	16051
10°	16179	16066	15995
15°	16073	15985	15896
20°	15966	15874	15755
25°	15775	15668	15512
30°	15485	15403	15207
35°	15079	14975	14785
40°	14595	14503	14338
45°	14200	14099	13959
50°	13687	13601	13468
55°	12978	12809	12712
60°	11815	11479	11422
65°	10413	9975	9942
70°	8983	8616	8616
75°	7743	7625	7514
80°	6817	6907	6732
85°	5335	5822	5822



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	164.9	2.4
10°-20°	470.8	6.9
20°-30°	705.2	10.3
30°-40°	827.2	12.1
40°-50°	829.7	12.1
50°-60°	707.9	10.3
60°-70°	461.6	6.7
70°-80°	231.6	3.4
80°-90°	65.0	0.9
90°-100°	146.8	2.1
100°-110°	510.8	7.4
110°-120°	494.8	7.2
120°-130°	388.1	5.7
130°-140°	307.2	4.5
140°-150°	237.1	3.5
150°-160°	169.9	2.5
160°-170°	103.9	1.5
170°-180°	35.2	0.5
0°-30°	1340.9	19.6
0°-40°	2168.1	31.6
0°-60°	3705.7	54.0
0°-90°	4464.0	65.1
90°-120°	1152.3	16.8
90°-150°	2084.7	30.4
90°-180°	2394.0	34.9
0°-180°	6857.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1750	1734	1739	1733	1733	166
15°	1683	1666	1674	1667	1664	475
25°	1550	1532	1539	1525	1524	713
35°	1339	1325	1330	1314	1313	836
45°	1088	1081	1081	1070	1070	838
55°	807	804	796	792	790	717
65°	477	468	457	454	455	476
75°	217	217	214	212	211	235
85°	50	55	55	55	55	59
90°	6	8	8	6	3	5
95°	25	85	248	63	39	26
105°	85	121	537	906	842	90
115°	149	179	399	842	994	147
125°	201	248	372	628	749	180
135°	242	272	369	523	592	188
145°	284	303	366	452	490	177
155°	322	333	360	402	416	148
165°	352	355	363	380	383	99
175°	369	369	366	372	369	35
180°	369	369	369	369	369	



TEST NUMBER: P845095

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1743.8	1743.8	1743.8	1743.8	1743.8
2.5°	1754.7	1740.4	1743.8	1741.3	1734.1
5°	1749.9	1733.5	1739.1	1733.1	1733.1
7.5°	1738.0	1720.1	1725.6	1719.6	1719.4
10°	1727.0	1709.1	1714.9	1708.5	1707.3
12.5°	1711.2	1693.3	1700.1	1692.7	1692.5
15°	1682.7	1666.1	1673.5	1667.2	1664.2
17.5°	1650.5	1632.6	1641.4	1632.9	1631.6
20°	1626.1	1608.2	1616.8	1604.7	1604.7
22.5°	1596.8	1578.9	1588.9	1572.8	1572.8
25°	1549.6	1531.7	1539.1	1525.1	1523.8
27.5°	1493.8	1476.1	1483.7	1467.9	1467.7
30°	1453.5	1436.9	1445.8	1429.0	1427.4
32.5°	1409.5	1394.1	1400.5	1383.7	1382.1
35°	1338.8	1325.4	1329.6	1314.4	1312.7
37.5°	1264.6	1250.9	1255.6	1242.4	1241.9
40°	1211.8	1202.9	1204.2	1193.4	1190.5
42.5°	1163.1	1152.8	1154.1	1143.3	1142.8
45°	1088.3	1080.6	1080.6	1069.8	1069.8
47.5°	1008.7	1002.9	1001.3	992.4	992.1
50°	953.6	949.2	947.6	939.9	938.3
52.5°	896.1	894.0	888.8	882.4	882.2
55°	806.8	804.0	796.3	791.5	790.3
57.5°	710.1	704.1	695.4	688.8	689.8
60°	640.3	634.2	622.1	619.0	619.0
62.5°	573.1	566.0	553.6	549.4	551.8
65°	477.0	468.0	456.9	454.0	455.4
67.5°	389.5	381.3	369.4	369.4	368.3
70°	333.0	328.5	319.4	319.4	319.4
72.5°	283.0	280.8	274.3	274.1	272.9
75°	217.2	217.2	213.9	212.4	210.8
77.5°	162.6	163.1	161.7	160.2	157.3
80°	128.3	131.5	130.0	128.3	126.7
82.5°	96.7	99.6	99.3	96.7	96.2
85°	50.4	54.8	55.0	55.0	55.0
87.5°	13.4	18.2	19.5	19.5	20.8
90°	5.5	8.3	8.3	5.5	2.8
92.5°	13.8	41.3	38.6	16.5	13.8
95°	24.8	85.3	247.7	63.3	38.6
97.5°	38.6	96.3	495.4	225.7	121.1
100°	52.3	101.9	578.0	542.3	349.6
102.5°	68.8	110.1	575.3	762.5	627.6
105°	85.3	121.1	536.8	905.6	842.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	132.1	162.4	418.4	911.1	1037.7
115°	148.6	178.9	399.1	842.3	993.6
117.5°	165.2	198.2	388.1	778.9	930.3
120°	178.9	214.7	379.9	718.4	867.0
122.5°	189.9	231.2	374.3	668.9	803.7
125°	201.0	247.7	371.6	627.6	748.7
127.5°	211.9	258.8	371.6	597.3	699.2
130°	223.0	264.3	368.8	567.0	657.8
132.5°	233.9	266.9	368.8	545.0	622.1
135°	242.2	272.5	368.8	522.9	591.8
137.5°	253.2	278.0	368.8	503.7	567.0
140°	261.5	286.3	368.8	484.4	539.5
142.5°	272.5	294.6	368.8	465.2	514.7
145°	283.5	302.7	366.1	451.5	489.9
147.5°	294.6	311.0	363.3	437.6	467.9
150°	302.7	319.3	363.3	423.8	448.7
152.5°	313.8	327.5	360.5	410.1	432.1
155°	322.1	333.0	360.5	401.8	415.7
157.5°	330.3	341.3	360.5	393.6	404.6
160°	338.5	346.8	363.3	388.1	396.3
162.5°	346.8	352.3	363.3	382.6	388.1
165°	352.3	355.1	363.3	379.9	382.6
167.5°	357.9	360.5	363.3	377.1	377.1
170°	360.5	363.3	366.1	374.3	374.3
172.5°	366.1	366.1	366.1	371.6	371.6
175°	368.8	368.8	366.1	371.6	368.8
177.5°	368.8	368.8	366.1	371.6	368.8
180°	368.8	368.8	368.8	368.8	368.8



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	<i>101.9</i>	134.9	487.2	968.9	979.9
110°	<i>115.6</i>	148.6	448.7	960.6	1040.5



(END OF REPORT)