

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: P845011

Luminaire Tested: **SQ4P-PC3-075U-125D-B50-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845011
REPORT IS A COMBINATION OF REPORTS P700226 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PC3-075U-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

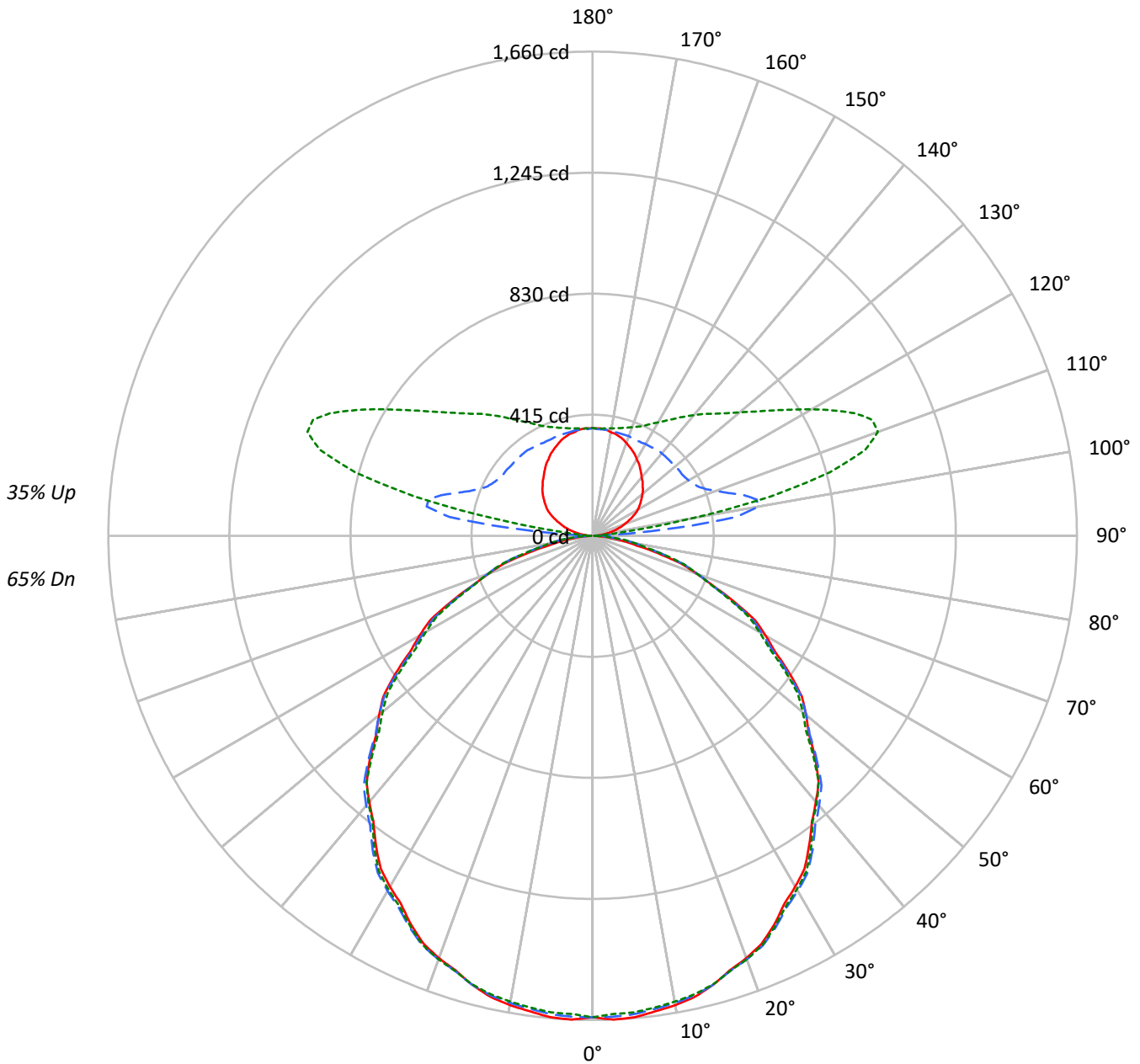
Lumens per Lamp: N/A
Luminaire Lumens: 6899.6 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (A_{in}): 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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65																			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	67	62	61	59	55																			
2	92	85	78	73	86	80	74	70	71	66	63	62	59	56	55	52	50	46																			
3	84	74	67	61	79	70	64	58	62	57	53	55	51	48	48	45	43	39																			
4	77	66	58	52	72	62	55	49	55	50	45	49	45	41	43	40	37	34																			
5	71	59	50	44	66	56	48	42	50	44	39	44	39	35	39	35	32	29																			
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	35	31	28	25																			
7	60	48	39	34	57	45	38	32	41	34	30	36	31	27	32	28	25	22																			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	24	30	25	22	20																			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18																			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15228	15228	15228
5°	15345	15245	15189
10°	15308	15236	15192
15°	15227	15227	15211
20°	15127	15170	15170
25°	14984	15092	15046
30°	14800	14979	14915
35°	14582	14804	14699
40°	14338	14543	14396
45°	14080	14179	13960
50°	13712	13712	13492
55°	13277	13103	12909
60°	12634	12382	12182
65°	11675	11446	11341
70°	10226	10305	10270
75°	8227	9101	9158
80°	5850	7715	7794
85°	3567	6468	6468



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.2	2.3
10°-20°	448.3	6.5
20°-30°	678.9	9.8
30°-40°	813.9	11.8
40°-50°	829.9	12.0
50°-60°	724.4	10.5
60°-70°	518.6	7.5
70°-80°	267.2	3.9
80°-90°	68.5	1.0
90°-100°	146.8	2.1
100°-110°	510.8	7.4
110°-120°	494.8	7.2
120°-130°	388.1	5.6
130°-140°	307.2	4.5
140°-150°	237.1	3.4
150°-160°	169.9	2.5
160°-170°	103.9	1.5
170°-180°	35.2	0.5
0°-30°	1283.4	18.6
0°-40°	2097.3	30.4
0°-60°	3651.6	52.9
0°-90°	4505.9	65.3
90°-120°	1152.3	16.7
90°-150°	2084.7	30.2
90°-180°	2394.0	34.7
0°-180°	6899.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1657	1640	1646	1641	1640	157
15°	1594	1581	1594	1594	1592	449
25°	1472	1461	1482	1478	1478	677
35°	1295	1291	1314	1305	1305	810
45°	1079	1076	1087	1073	1070	831
55°	825	815	815	802	802	736
65°	535	523	524	520	520	529
75°	231	241	255	257	257	249
85°	34	52	61	63	61	46
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	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.5	1650.5	1650.5	1650.5	1650.5
2.5°	1660.5	1646.1	1650.5	1646.8	1640.8
5°	1656.9	1640.2	1646.1	1641.3	1640.0
7.5°	1644.7	1628.4	1636.1	1632.9	1631.3
10°	1634.0	1617.3	1626.3	1623.1	1621.6
12.5°	1619.2	1603.9	1614.0	1611.0	1610.5
15°	1594.2	1580.7	1594.2	1594.2	1592.5
17.5°	1562.6	1550.5	1564.7	1565.7	1564.7
20°	1540.7	1527.2	1545.1	1543.6	1545.1
22.5°	1513.8	1502.8	1522.0	1518.0	1519.6
25°	1471.9	1461.4	1482.5	1478.0	1478.0
27.5°	1422.4	1414.7	1437.9	1432.9	1432.9
30°	1389.2	1381.9	1406.0	1400.0	1400.0
32.5°	1352.5	1347.6	1370.7	1363.4	1363.4
35°	1294.7	1291.4	1314.4	1305.1	1305.1
37.5°	1234.6	1231.9	1252.8	1241.6	1238.0
40°	1190.5	1189.3	1207.5	1195.3	1195.3
42.5°	1146.5	1145.0	1161.1	1146.3	1146.3
45°	1079.1	1076.0	1086.7	1072.7	1069.9
47.5°	1005.3	1002.5	1009.1	994.0	992.4
50°	955.3	952.1	955.3	941.4	940.0
52.5°	903.9	898.4	898.9	885.2	884.9
55°	825.4	814.8	814.6	802.5	802.5
57.5°	742.1	728.5	729.7	719.3	717.6
60°	684.7	669.7	671.0	661.8	660.2
62.5°	628.3	611.2	614.6	604.3	604.1
65°	534.8	522.9	524.3	519.5	519.5
67.5°	445.0	433.9	442.1	438.4	438.1
70°	379.1	371.5	382.0	382.0	380.7
72.5°	318.0	317.7	330.6	330.6	331.7
75°	230.8	241.3	255.3	256.9	256.9
77.5°	154.1	172.6	188.1	188.6	188.4
80°	110.1	130.9	145.2	148.3	146.7
82.5°	74.5	96.7	108.5	111.5	110.1
85°	33.7	51.6	61.1	62.7	61.1
87.5°	9.7	20.6	24.5	24.5	22.1
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°	101.9	134.9	487.2	968.9	979.9
110°	115.6	148.6	448.7	960.6	1040.5



(END OF REPORT)