

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: P845124

Luminaire Tested: **SQ4P-PP3-125U-075D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845124
REPORT IS A COMBINATION OF REPORTS P700116 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-125U-075D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1250 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

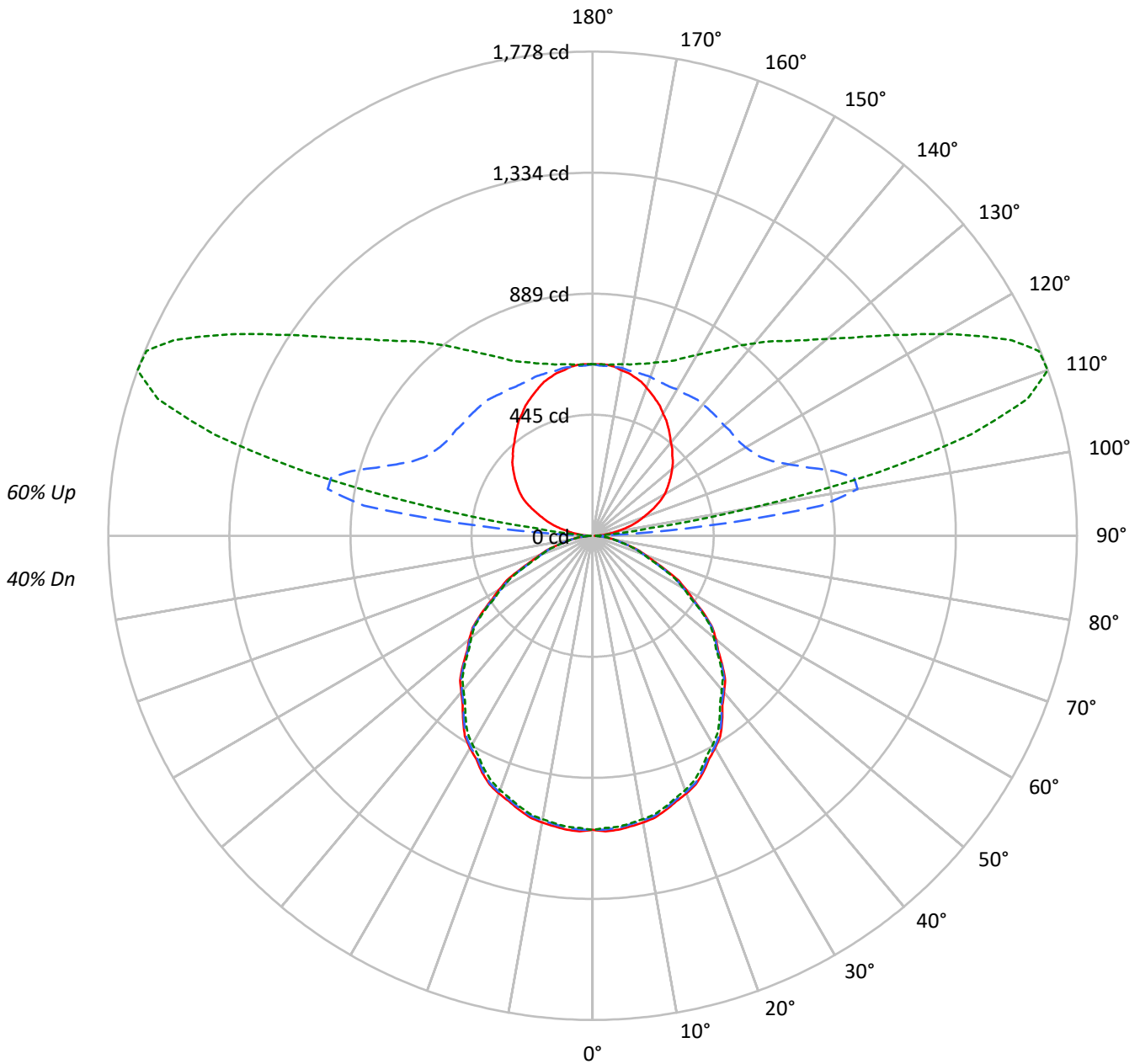
Lumens per Lamp: N/A
Luminaire Lumens: 6855.6 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 59.6
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					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	105	105	105	105	95	95	95	95	78	78	78	62	62	62	47	47	47	40								
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	34								
2	87	80	74	69	79	73	68	64	60	57	53	48	46	44	37	36	34	29								
3	80	70	63	58	72	64	58	53	53	49	45	43	40	37	33	31	29	25								
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	27	25	21								
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	27	24	22	18								
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16								
7	57	45	37	32	52	41	34	29	34	29	25	28	24	21	22	19	17	14								
8	53	41	33	28	48	37	31	26	31	26	22	26	22	19	20	17	15	13								
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12								
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9963	9963	9963
5°	10036	9974	9938
10°	10020	9948	9904
15°	9953	9898	9844
20°	9887	9830	9756
25°	9770	9703	9607
30°	9589	9538	9417
35°	9337	9274	9156
40°	9038	8981	8880
45°	8793	8730	8644
50°	8476	8423	8341
55°	8036	7933	7872
60°	7316	7110	7073
65°	6449	6178	6156
70°	5562	5336	5336
75°	4791	4723	4652
80°	4224	4272	4171
85°	3303	3610	3610



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	1.5
10°-20°	291.6	4.3
20°-30°	436.7	6.4
30°-40°	512.2	7.5
40°-50°	513.8	7.5
50°-60°	438.4	6.4
60°-70°	285.9	4.2
70°-80°	143.4	2.1
80°-90°	41.2	0.6
90°-100°	250.8	3.7
100°-110°	872.7	12.7
110°-120°	845.4	12.3
120°-130°	663.2	9.7
130°-140°	524.9	7.7
140°-150°	405.1	5.9
150°-160°	290.4	4.2
160°-170°	177.6	2.6
170°-180°	60.1	0.9
0°-30°	830.4	12.1
0°-40°	1342.6	19.6
0°-60°	2294.8	33.5
0°-90°	2765.3	40.3
90°-120°	1969.0	28.7
90°-150°	3562.1	52.0
90°-180°	4090.0	59.7
0°-180°	6855.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1084	1074	1077	1073	1073	103
15°	1042	1032	1036	1032	1031	294
25°	960	948	953	944	944	441
35°	829	821	823	814	813	518
45°	674	669	669	662	662	519
55°	500	498	493	490	489	444
65°	295	290	283	281	282	295
75°	134	134	132	132	130	146
85°	31	34	34	34	34	37
90°	9	14	14	9	5	7
95°	42	146	423	108	66	45
105°	146	207	917	1547	1439	153
115°	254	306	682	1439	1698	251
125°	343	423	635	1072	1279	307
135°	414	466	630	894	1011	321
145°	484	517	626	771	837	303
155°	550	569	616	687	710	254
165°	602	607	621	649	654	170
175°	630	630	626	635	630	60
180°	630	630	630	630	630	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1086.6	1077.8	1079.9	1078.3	1073.8
5°	1083.6	1073.5	1076.9	1073.1	1073.1
7.5°	1076.2	1065.2	1068.6	1064.9	1064.7
10°	1069.5	1058.3	1061.9	1058.0	1057.2
12.5°	1059.7	1048.5	1052.8	1048.2	1048.0
15°	1042.0	1031.8	1036.3	1032.4	1030.6
17.5°	1022.1	1011.0	1016.5	1011.2	1010.3
20°	1007.0	995.8	1001.2	993.7	993.7
22.5°	988.8	977.7	983.9	974.0	974.0
25°	959.7	948.5	953.1	944.4	943.7
27.5°	925.1	914.1	918.9	909.1	908.9
30°	900.1	889.8	895.3	884.9	883.9
32.5°	872.8	863.3	867.3	856.8	855.9
35°	829.0	820.8	823.4	813.9	812.9
37.5°	783.1	774.6	777.5	769.3	769.0
40°	750.4	744.9	745.7	739.0	737.3
42.5°	720.2	713.9	714.7	708.0	707.7
45°	673.9	669.1	669.1	662.5	662.5
47.5°	624.7	621.1	620.1	614.5	614.4
50°	590.5	587.7	586.8	582.0	581.1
52.5°	555.0	553.6	550.4	546.5	546.3
55°	499.6	497.8	493.2	490.2	489.4
57.5°	439.8	436.0	430.7	426.6	427.2
60°	396.5	392.8	385.3	383.3	383.3
62.5°	354.9	350.5	342.9	340.2	341.7
65°	295.4	289.7	283.0	281.1	282.0
67.5°	241.2	236.1	228.8	228.8	228.1
70°	206.2	203.5	197.8	197.8	197.8
72.5°	175.2	173.9	169.9	169.7	169.0
75°	134.4	134.4	132.5	131.5	130.5
77.5°	100.7	101.0	100.2	99.2	97.4
80°	79.5	81.4	80.4	79.5	78.5
82.5°	59.9	61.6	61.5	59.9	59.6
85°	31.2	33.9	34.1	34.1	34.1
87.5°	8.3	11.2	12.1	12.1	12.9
90°	9.4	14.1	14.1	9.4	4.7
92.5°	23.5	70.5	65.8	28.2	23.5
95°	42.3	145.8	423.3	108.1	65.8
97.5°	65.8	164.6	846.6	385.7	207.0
100°	89.3	174.0	987.7	926.5	597.3
102.5°	117.5	188.1	983.0	1302.8	1072.4
105°	145.8	207.0	917.1	1547.4	1439.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.8	277.5	714.9	1556.8	1773.2
115°	254.0	305.7	682.0	1439.3	1697.9
117.5°	282.2	338.7	663.1	1331.1	1589.7
120°	305.7	366.9	649.1	1227.6	1481.6
122.5°	324.5	395.1	639.7	1142.9	1373.4
125°	343.3	423.3	634.9	1072.4	1279.4
127.5°	362.1	442.1	634.9	1020.6	1194.7
130°	380.9	451.5	630.3	968.9	1124.1
132.5°	399.8	456.2	630.3	931.3	1063.0
135°	413.9	465.6	630.3	893.7	1011.2
137.5°	432.7	475.0	630.3	860.7	968.9
140°	446.8	489.2	630.3	827.8	921.9
142.5°	465.6	503.2	630.3	794.8	879.5
145°	484.4	517.4	625.5	771.4	837.2
147.5°	503.2	531.4	620.9	747.8	799.6
150°	517.4	545.6	620.9	724.3	766.6
152.5°	536.2	559.7	616.1	700.8	738.4
155°	550.3	569.1	616.1	686.7	710.2
157.5°	564.4	583.2	616.1	672.6	691.4
160°	578.5	592.6	620.9	663.1	677.3
162.5°	592.6	602.1	620.9	653.7	663.1
165°	602.1	606.7	620.9	649.1	653.7
167.5°	611.5	616.1	620.9	644.3	644.3
170°	616.1	620.9	625.5	639.7	639.7
172.5°	625.5	625.5	625.5	634.9	634.9
175°	630.3	630.3	625.5	634.9	630.3
177.5°	630.3	630.3	625.5	634.9	630.3
180°	630.3	630.3	630.3	630.3	630.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	174.0	230.4	832.5	1655.5	1674.4
110°	197.5	254.0	766.6	1641.5	1777.8



(END OF REPORT)