

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: P844872

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P844872
REPORT IS A COMBINATION OF REPORTS P700104 AND P700247
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-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

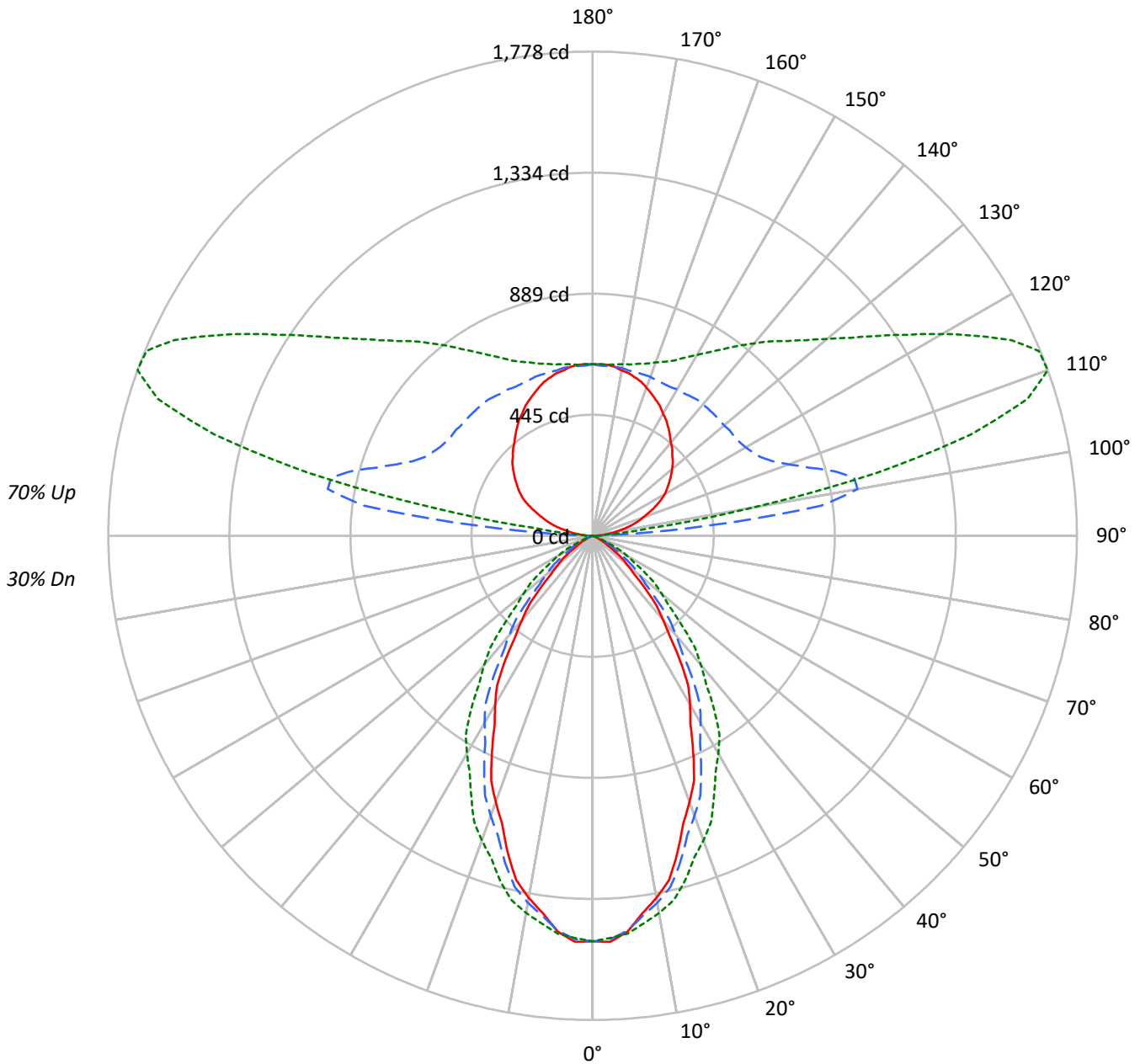
Lumens per Lamp: N/A
Luminaire Lumens: 5868.1 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30								
1	94	91	87	84	85	82	79	76	65	63	61	49	48	47	35	35	34	28								
2	87	80	75	71	78	73	68	64	58	55	53	45	43	41	32	31	30	25								
3	80	72	65	60	72	65	60	55	52	49	46	41	38	36	30	28	27	23								
4	74	64	57	52	66	58	52	48	47	43	40	37	34	32	27	26	24	20								
5	68	58	50	45	61	52	46	42	43	38	35	34	31	28	25	23	22	19								
6	63	52	45	40	57	48	41	37	39	34	31	31	28	25	23	21	20	17								
7	58	47	40	35	53	43	37	33	36	31	28	28	25	23	22	20	18	16								
8	54	43	36	31	49	40	33	29	33	28	25	26	23	21	20	18	17	14								
9	51	40	33	28	46	36	30	26	30	26	23	24	21	19	19	17	15	13								
10	47	36	30	25	43	33	28	24	28	24	21	23	20	17	18	16	14	12								

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13739	13739	13739
5°	13517	13484	13585
10°	12647	12816	13174
15°	11498	11863	12523
20°	10207	10737	11677
25°	8887	9592	10730
30°	7614	8450	9831
35°	6312	7173	8746
40°	4849	5735	7452
45°	3507	4344	5997
50°	2388	3235	4757
55°	1552	2340	3696
60°	891	1648	2674
65°	236	1006	1354
70°	119	310	386
75°	53	25	0
80°	37	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	2.3
10°-20°	347.5	5.9
20°-30°	435.1	7.4
30°-40°	401.8	6.8
40°-50°	270.0	4.6
50°-60°	139.5	2.4
60°-70°	43.7	0.7
70°-80°	2.8	0.0
80°-90°	1.6	0.0
90°-100°	250.8	4.3
100°-110°	872.7	14.9
110°-120°	845.4	14.4
120°-130°	663.2	11.3
130°-140°	524.9	8.9
140°-150°	405.1	6.9
150°-160°	290.4	4.9
160°-170°	177.6	3.0
170°-180°	60.1	1.0
0°-30°	918.5	15.7
0°-40°	1320.3	22.5
0°-60°	1729.8	29.5
0°-90°	1777.8	30.3
90°-120°	1969.0	33.6
90°-150°	3562.1	60.7
90°-180°	4090.0	69.7
0°-180°	5868.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1460	1445	1456	1461	1467	135
15°	1204	1200	1242	1284	1311	335
25°	873	880	942	1007	1054	400
35°	560	575	637	712	776	347
45°	269	285	333	398	460	211
55°	96	113	146	187	230	90
65°	11	21	46	56	62	18
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	9	14	14	9	5	6
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°	1489.1	1489.1	1489.1	1489.1	1489.1
2.5°	1492.5	1478.5	1482.1	1482.1	1478.1
5°	1459.5	1444.7	1455.9	1461.1	1466.8
7.5°	1397.9	1386.3	1407.9	1423.8	1435.6
10°	1349.9	1340.1	1368.0	1389.9	1406.2
12.5°	1294.7	1287.0	1320.7	1351.0	1371.6
15°	1203.8	1199.6	1242.0	1283.5	1311.1
17.5°	1106.5	1106.3	1154.5	1206.4	1239.5
20°	1039.6	1041.7	1093.6	1150.7	1189.3
22.5°	972.7	977.6	1033.0	1092.6	1136.9
25°	873.0	880.1	942.2	1006.8	1054.0
27.5°	777.5	787.8	853.2	920.0	977.6
30°	714.7	726.6	793.2	863.6	922.8
32.5°	652.9	667.2	731.9	806.6	866.8
35°	560.4	574.6	636.9	711.8	776.5
37.5°	465.0	478.7	539.5	613.4	683.4
40°	402.6	418.2	476.2	547.7	618.7
42.5°	346.2	361.8	416.2	486.5	553.7
45°	268.8	284.9	332.9	397.6	459.6
47.5°	204.6	222.0	264.1	322.8	379.2
50°	166.4	183.9	225.4	277.1	331.4
52.5°	135.9	153.0	190.3	239.0	288.7
55°	96.5	112.7	145.5	186.9	229.8
57.5°	66.7	80.7	110.1	144.5	178.3
60°	48.3	61.6	89.3	117.3	144.9
62.5°	32.2	44.4	71.4	92.9	111.4
65°	10.8	20.7	46.1	55.6	62.0
67.5°	5.5	6.5	24.1	25.6	27.7
70°	4.4	4.4	11.5	12.2	14.3
72.5°	3.1	3.1	4.6	5.9	6.4
75°	1.5	1.5	0.7	0.0	0.0
77.5°	0.7	0.7	0.7	0.0	0.0
80°	0.7	0.7	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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)