

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P564807

Luminaire Tested: **SQ4-PW1-075U-125D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564807
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-075U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10131.8 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

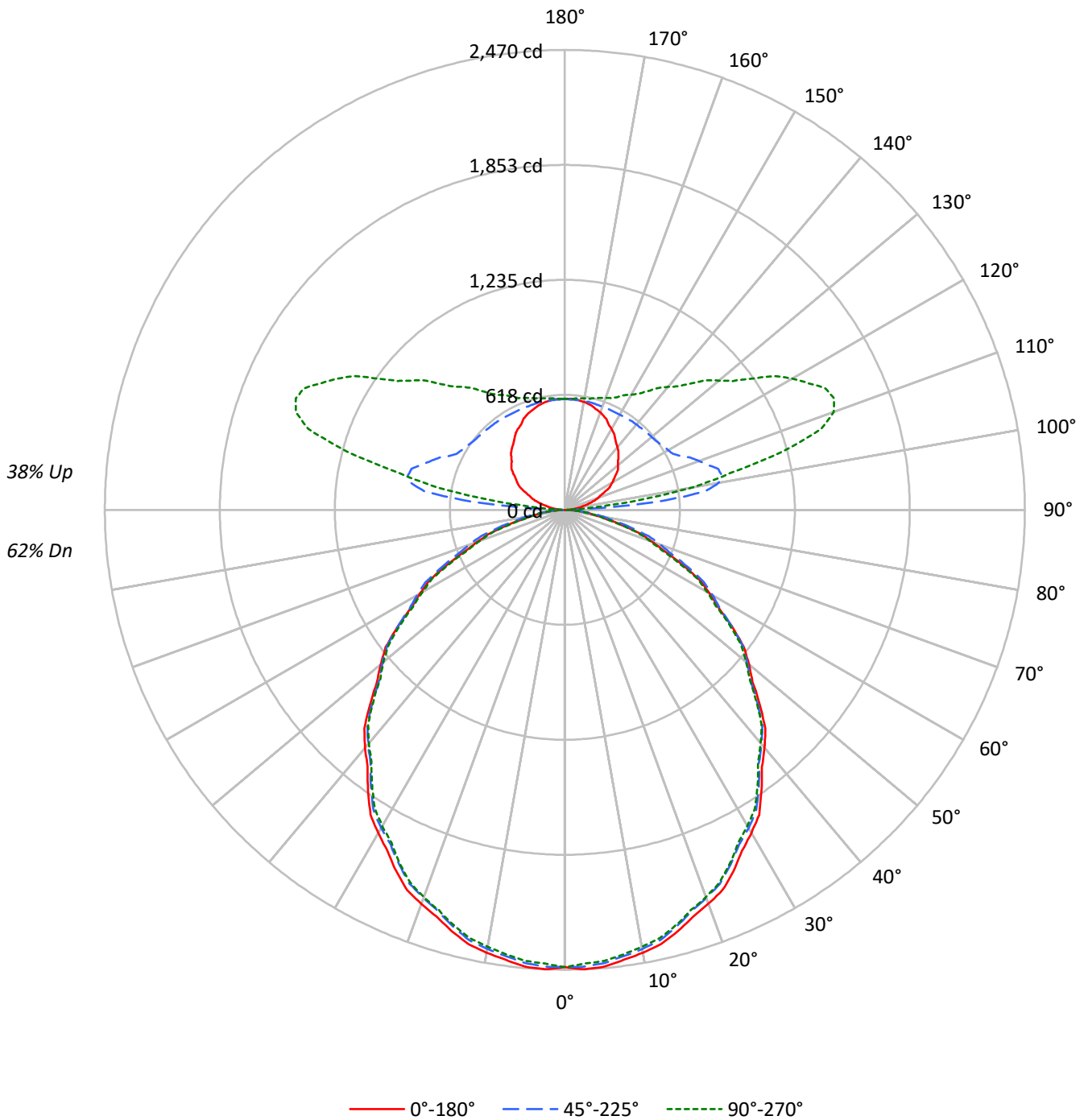
Input Watts (W): 97.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	59	58	57	52
2	92	84	78	73	86	79	74	69	69	65	62	61	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	51	71	62	55	49	55	49	44	48	43	40	42	38	35	32
5	70	59	50	44	66	55	48	42	49	43	38	43	38	35	37	34	31	28
6	65	53	44	38	61	50	42	37	44	38	34	39	34	30	34	30	27	24
7	60	48	39	34	56	45	38	32	40	34	30	35	31	27	31	27	24	22
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14878
15°	14922	14756	14701
20°	14743	14517	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13394	13186	13134
45°	12874	12704	12648
50°	12340	12236	12154
55°	11764	11764	11578
60°	11046	11258	10860
65°	10108	10613	9856
70°	8911	9767	8677
75°	7610	8741	7405
80°	5901	7357	5979
85°	3818	5653	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	2.3
10°-20°	652.9	6.4
20°-30°	968.4	9.6
30°-40°	1133.2	11.2
40°-50°	1128.1	11.1
50°-60°	974.2	9.6
60°-70°	701.2	6.9
70°-80°	367.7	3.6
80°-90°	92.7	0.9
90°-100°	281.1	2.8
100°-110°	773.3	7.6
110°-120°	798.1	7.9
120°-130°	639.5	6.3
130°-140°	502.3	5.0
140°-150°	384.9	3.8
150°-160°	276.7	2.7
160°-170°	169.2	1.7
170°-180°	57.0	0.6
0°-30°	1852.6	18.3
0°-40°	2985.7	29.5
0°-60°	5088.0	50.2
0°-90°	6249.7	61.7
90°-120°	1852.5	18.3
90°-150°	3379.1	33.4
90°-180°	3882.0	38.3
0°-180°	10131.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2456	2456	2456	2456	2456	
5°	2462	2435	2443	2436	2432	233
15°	2343	2314	2317	2313	2309	660
25°	2142	2106	2103	2090	2097	985
35°	1841	1816	1815	1798	1804	1151
45°	1480	1467	1460	1456	1454	1142
55°	1097	1095	1097	1082	1080	979
65°	694	716	729	700	677	688
75°	320	350	368	343	312	343
85°	54	71	80	76	71	71
90°	1	5	9	11	11	5
95°	42	153	497	212	136	44
105°	138	213	852	1298	1211	146
115°	245	298	683	1361	1544	241
125°	337	384	620	1049	1229	301
135°	407	452	602	848	960	314
145°	470	503	593	723	778	295
155°	532	550	590	650	668	245
165°	576	583	592	616	620	162
175°	596	597	593	601	600	57
180°	596	596	596	596	596	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2455.8	2455.8	2455.8	2455.8	2455.8
2.5°	2469.6	2449.3	2455.8	2450.3	2438.5
5°	2462.3	2434.8	2442.8	2436.2	2432.0
7.5°	2437.2	2411.8	2417.7	2410.7	2408.2
10°	2414.7	2389.3	2395.2	2386.4	2382.2
12.5°	2388.7	2361.6	2367.5	2358.8	2356.2
15°	2343.3	2313.6	2317.3	2312.9	2308.6
17.5°	2290.5	2260.4	2261.0	2254.1	2253.3
20°	2252.4	2220.7	2217.8	2209.2	2213.4
22.5°	2210.9	2177.4	2174.5	2162.5	2168.4
25°	2142.0	2106.1	2103.1	2090.3	2096.6
27.5°	2062.4	2026.9	2026.9	2008.9	2015.7
30°	2003.6	1969.7	1973.3	1951.8	1960.3
32.5°	1941.3	1910.8	1912.7	1891.3	1899.7
35°	1841.3	1815.9	1815.3	1798.2	1804.5
37.5°	1739.2	1716.7	1713.2	1703.3	1705.0
40°	1668.2	1649.2	1642.2	1635.7	1635.7
42.5°	1593.8	1576.4	1569.5	1564.7	1563.0
45°	1480.0	1467.3	1460.5	1456.1	1454.0
47.5°	1367.4	1355.6	1349.7	1346.6	1344.5
50°	1289.6	1281.1	1278.7	1272.2	1270.1
52.5°	1211.7	1206.6	1204.3	1196.0	1193.9
55°	1097.0	1094.9	1097.0	1081.8	1079.7
57.5°	977.6	980.9	987.9	967.5	962.4
60°	897.9	906.4	915.2	891.2	882.8
62.5°	816.6	830.1	842.5	815.0	803.2
65°	694.5	715.7	729.2	700.5	677.2
67.5°	576.8	603.1	619.2	588.4	562.1
70°	495.5	525.1	543.1	512.1	482.5
72.5°	424.5	457.5	472.1	442.9	413.3
75°	320.2	349.8	367.8	343.3	311.6
77.5°	227.2	255.1	270.0	248.7	222.4
80°	166.6	196.2	207.7	189.9	168.8
82.5°	118.1	142.7	150.6	139.9	125.5
85°	54.1	71.0	80.1	75.6	71.4
87.5°	14.1	26.7	34.7	35.2	36.9
90°	1.3	5.0	8.9	11.4	11.4
92.5°	17.5	74.8	129.6	49.8	40.8
95°	41.8	153.4	497.0	212.5	135.7
97.5°	68.2	170.1	758.5	584.4	412.3
100°	87.5	180.5	840.6	848.5	692.3
102.5°	105.7	192.8	861.9	1052.6	909.3
105°	138.2	212.6	852.0	1297.6	1210.8
107.5°	169.1	237.1	803.6	1417.6	1443.4
110°	191.5	253.4	767.1	1447.4	1536.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	211.7	271.7	730.6	1428.2	1564.1
115°	244.7	298.0	683.4	1360.8	1544.3
117.5°	276.1	325.2	653.5	1266.3	1473.8
120°	295.4	342.5	640.3	1195.4	1409.9
122.5°	312.7	359.8	631.2	1133.3	1336.9
125°	337.3	384.4	620.0	1048.8	1228.6
127.5°	360.6	405.5	612.6	978.3	1136.0
130°	372.8	418.6	608.6	936.4	1080.2
132.5°	387.0	432.8	605.5	899.6	1029.5
135°	407.0	451.6	602.2	848.2	959.8
137.5°	425.8	467.2	599.5	806.7	898.7
140°	440.0	478.4	598.4	779.1	862.2
142.5°	452.1	487.6	596.4	754.5	825.6
145°	470.4	502.6	593.4	722.7	778.5
147.5°	489.9	517.7	591.9	694.5	739.2
150°	502.1	526.9	590.8	679.1	713.8
152.5°	513.2	536.1	589.8	665.8	694.5
155°	532.5	549.9	589.6	649.6	668.2
157.5°	546.5	560.6	589.6	636.3	649.2
160°	556.6	567.8	589.6	629.1	639.0
162.5°	564.7	573.9	590.6	623.0	630.9
165°	575.6	583.1	592.1	616.3	620.0
167.5°	583.2	588.9	593.4	610.6	611.6
170°	588.3	592.0	593.4	608.6	608.6
172.5°	592.4	594.1	593.4	605.5	604.5
175°	595.9	597.1	593.4	601.0	599.7
177.5°	596.9	596.9	592.9	598.9	596.9
180°	595.9	595.9	595.9	595.9	595.9

(END OF REPORT)