

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: P563045

Luminaire Tested: **SQ4-PC3-125U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563045
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

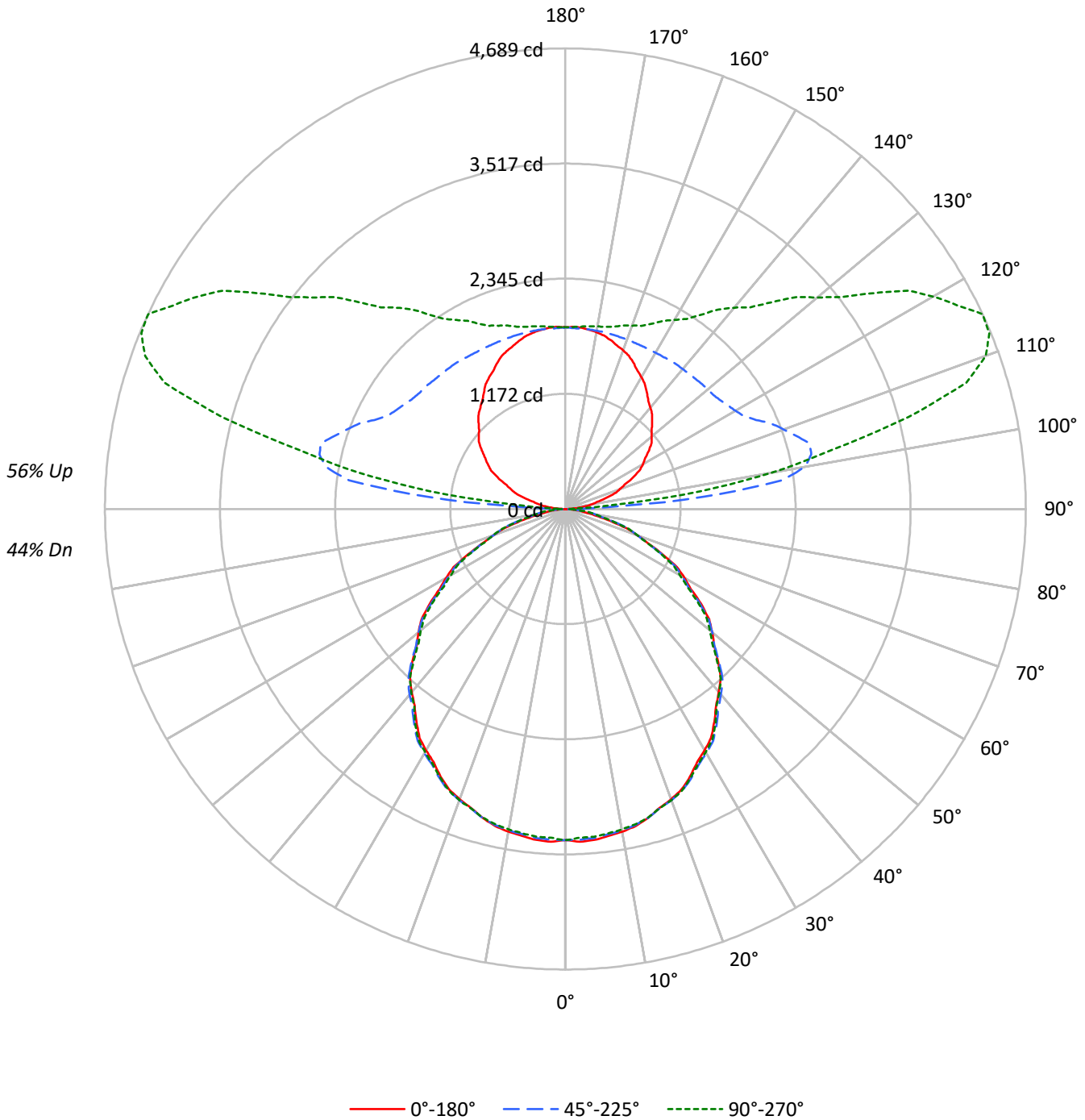
Lumens per Lamp: N/A
Luminaire Lumens: 21139.5 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 201.2
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	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	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10367	10367	10367
5°	10446	10378	10340
10°	10420	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10274	10242
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9799
45°	9584	9652	9503
50°	9334	9334	9185
55°	9038	8920	8786
60°	8601	8428	8294
65°	7950	7791	7723
70°	6961	7017	6988
75°	5600	6194	6231
80°	3980	5251	5308
85°	2424	4407	4407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.0	1.5
10°-20°	915.6	4.3
20°-30°	1386.5	6.6
30°-40°	1662.2	7.9
40°-50°	1694.9	8.0
50°-60°	1479.5	7.0
60°-70°	1059.2	5.0
70°-80°	545.6	2.6
80°-90°	142.3	0.7
90°-100°	864.9	4.1
100°-110°	2329.7	11.0
110°-120°	2444.9	11.6
120°-130°	1984.0	9.4
130°-140°	1556.0	7.4
140°-150°	1194.6	5.7
150°-160°	858.9	4.1
160°-170°	524.8	2.5
170°-180°	177.0	0.8
0°-30°	2621.1	12.4
0°-40°	4283.3	20.3
0°-60°	7457.7	35.3
0°-90°	9204.8	43.5
90°-120°	5639.5	26.7
90°-150°	10374.1	49.1
90°-180°	11935.0	56.5
0°-180°	21139.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3371	3371	3371	3371	3371	
5°	3384	3350	3362	3352	3349	321
15°	3256	3228	3256	3256	3252	918
25°	3006	2985	3028	3018	3018	1383
35°	2644	2638	2684	2666	2666	1653
45°	2204	2198	2219	2191	2185	1696
55°	1686	1664	1664	1639	1639	1503
65°	1092	1068	1071	1061	1061	1080
75°	471	493	521	524	524	509
85°	69	105	125	128	125	93
90°	5	14	28	31	31	12
95°	132	470	1418	725	502	138
105°	431	670	2576	3855	3617	453
115°	761	931	2146	4146	4689	749
125°	1039	1193	1926	3256	3832	927
135°	1251	1396	1872	2627	2974	965
145°	1446	1559	1849	2246	2412	907
155°	1642	1701	1832	2015	2080	756
165°	1780	1801	1839	1912	1922	502
175°	1851	1849	1842	1868	1863	176
180°	1849	1849	1849	1849	1849	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3371.1	3371.1	3371.1	3371.1	3371.1
2.5°	3391.1	3361.8	3371.1	3363.4	3351.1
5°	3383.6	3350.0	3361.8	3352.3	3349.3
7.5°	3359.3	3325.7	3341.2	3334.8	3331.8
10°	3336.8	3303.2	3321.2	3314.9	3311.8
12.5°	3306.8	3275.7	3296.2	3290.0	3289.3
15°	3255.6	3228.2	3255.6	3255.6	3252.5
17.5°	3191.3	3166.3	3195.7	3197.5	3195.7
20°	3146.4	3118.9	3155.7	3152.7	3155.7
22.5°	3091.4	3068.9	3108.3	3100.3	3103.3
25°	3005.9	2984.6	3027.8	3018.4	3018.4
27.5°	2904.8	2889.5	2936.6	2926.6	2926.6
30°	2837.4	2822.1	2871.7	2859.2	2859.2
32.5°	2762.4	2752.1	2799.3	2784.3	2784.3
35°	2643.8	2637.7	2684.4	2665.7	2665.7
37.5°	2521.5	2516.0	2558.3	2535.7	2528.3
40°	2431.6	2428.5	2465.9	2440.9	2440.9
42.5°	2341.7	2338.6	2371.0	2341.1	2341.1
45°	2203.7	2197.6	2219.3	2191.1	2185.0
47.5°	2053.3	2047.2	2060.8	2030.1	2027.0
50°	1950.9	1944.8	1950.9	1922.7	1919.7
52.5°	1846.0	1835.0	1836.0	1807.9	1807.3
55°	1685.6	1664.2	1663.7	1638.7	1638.7
57.5°	1515.8	1487.7	1490.2	1468.9	1465.8
60°	1398.4	1367.9	1370.3	1351.5	1348.4
62.5°	1283.5	1248.1	1255.4	1234.2	1233.6
65°	1092.5	1068.1	1070.6	1061.3	1061.3
67.5°	909.0	886.4	902.7	895.2	894.6
70°	774.1	758.8	780.4	780.3	777.2
72.5°	649.3	648.6	675.5	675.5	677.3
75°	471.3	492.7	521.3	524.4	524.4
77.5°	314.6	352.5	383.9	385.2	384.6
80°	224.7	267.5	296.5	302.7	299.7
82.5°	152.3	197.5	221.6	227.8	224.7
85°	68.7	105.3	124.9	127.9	124.9
87.5°	20.9	44.7	55.6	56.0	51.1
90°	4.7	13.9	28.3	30.6	30.6
92.5°	57.5	203.0	401.3	193.2	134.2
95°	131.9	470.4	1417.8	725.0	501.6
97.5°	210.5	538.5	2223.7	1857.7	1400.8
100°	270.8	565.6	2479.9	2594.7	2152.5
102.5°	329.2	603.7	2564.7	3146.6	2783.7
105°	431.0	670.5	2576.5	3854.6	3617.4
107.5°	527.1	740.8	2466.7	4218.4	4279.7
110°	591.1	793.8	2366.9	4331.4	4554.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	659.0	846.9	2270.8	4306.4	4673.4
115°	760.7	931.1	2145.5	4145.5	4689.0
117.5°	853.5	1013.3	2048.5	3888.8	4494.0
120°	913.8	1068.1	1999.5	3704.5	4326.3
122.5°	966.5	1119.0	1963.7	3516.1	4136.0
125°	1038.6	1192.9	1926.5	3256.0	3831.7
127.5°	1107.8	1259.8	1902.9	3026.7	3540.6
130°	1149.3	1301.3	1893.5	2895.2	3346.6
132.5°	1190.7	1340.9	1884.1	2779.5	3194.0
135°	1250.6	1395.6	1872.3	2626.8	2974.5
137.5°	1307.5	1446.6	1866.2	2497.2	2782.8
140°	1347.1	1480.7	1860.5	2417.5	2675.4
142.5°	1388.6	1512.9	1856.7	2343.1	2560.4
145°	1446.0	1558.9	1848.7	2245.8	2411.6
147.5°	1508.2	1606.3	1840.7	2164.0	2294.3
150°	1549.6	1634.8	1837.0	2112.6	2220.8
152.5°	1587.3	1661.5	1835.1	2070.7	2158.7
155°	1641.5	1701.4	1832.3	2015.1	2079.5
157.5°	1689.1	1735.6	1832.7	1976.0	2019.2
160°	1719.2	1758.4	1834.6	1953.1	1985.3
162.5°	1745.6	1777.4	1836.5	1934.0	1957.1
165°	1780.4	1801.2	1839.3	1912.5	1921.7
167.5°	1808.7	1820.7	1841.7	1895.9	1899.6
170°	1827.5	1832.2	1841.7	1886.4	1886.4
172.5°	1838.9	1839.8	1843.6	1877.0	1877.0
175°	1851.1	1848.8	1841.7	1867.5	1862.9
177.5°	1856.3	1852.6	1843.1	1858.1	1854.4
180°	1848.7	1848.7	1848.7	1848.7	1848.7

(END OF REPORT)