

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: P563053

Luminaire Tested: **SQ4-PC3-125U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563053  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

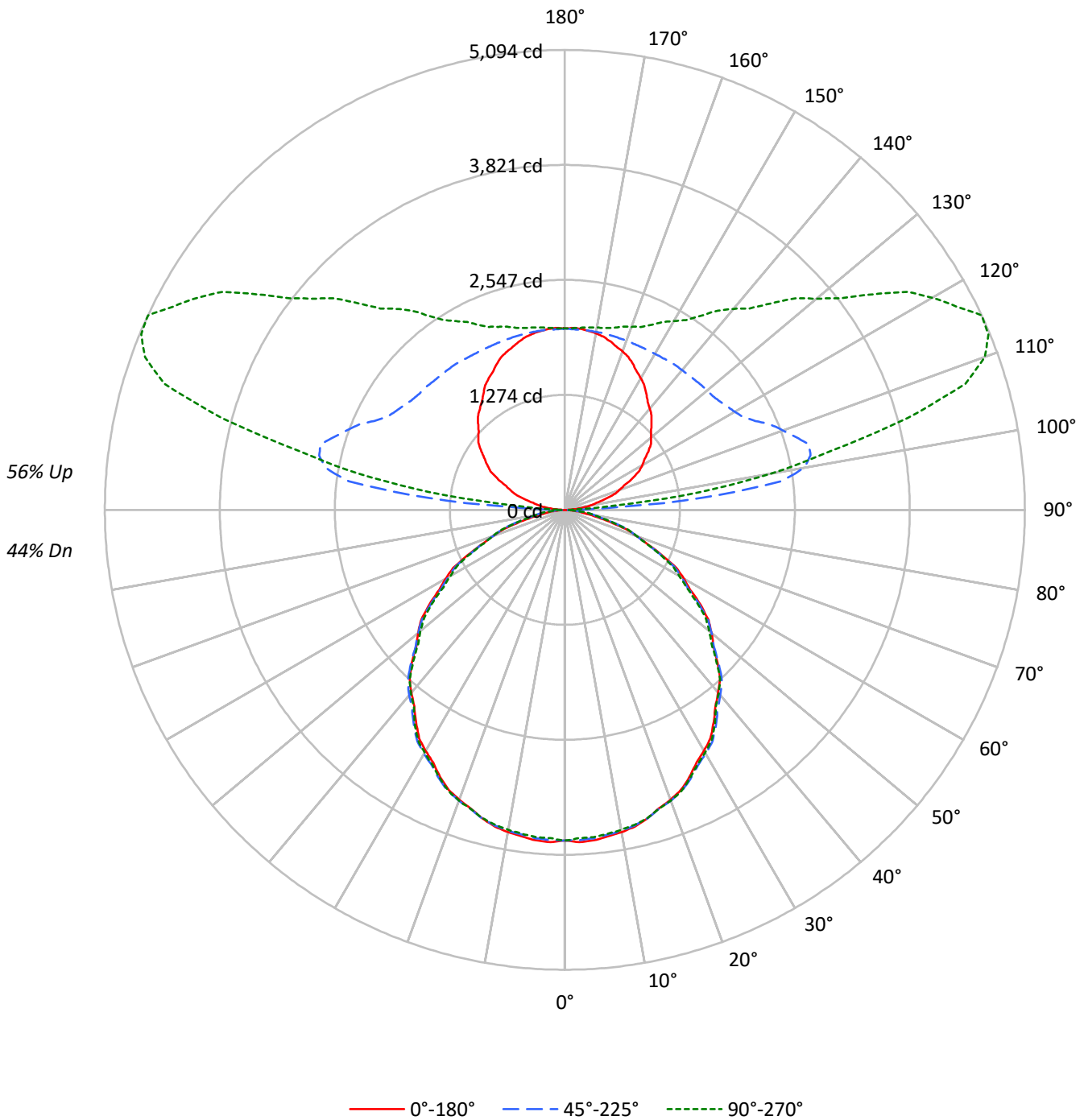
Lumens per Lamp: N/A  
Luminaire Lumens: 22965.2 lumens  
Efficiency: N/A  
Efficacy: 114.1 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44				44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37				37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31				31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26				26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22				22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19				19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17				17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15				15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13				13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12				12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11				11

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11233
10°	11320	11267	11235
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11162	11127
30°	10946	11079	11030
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10486	10324
50°	10140	10140	9978
55°	9818	9691	9546
60°	9344	9156	9010
65°	8636	8464	8390
70°	7562	7622	7593
75°	6084	6729	6769
80°	4325	5705	5765
85°	2632	4785	4785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.6	1.5
10°-20°	994.6	4.3
20°-30°	1506.2	6.6
30°-40°	1805.8	7.9
40°-50°	1841.3	8.0
50°-60°	1607.3	7.0
60°-70°	1150.7	5.0
70°-80°	592.7	2.6
80°-90°	154.6	0.7
90°-100°	939.5	4.1
100°-110°	2530.9	11.0
110°-120°	2656.1	11.6
120°-130°	2155.4	9.4
130°-140°	1690.4	7.4
140°-150°	1297.8	5.7
150°-160°	933.1	4.1
160°-170°	570.1	2.5
170°-180°	192.2	0.8
0°-30°	2847.5	12.4
0°-40°	4653.2	20.3
0°-60°	8101.8	35.3
0°-90°	9999.8	43.5
90°-120°	6126.5	26.7
90°-150°	11270.0	49.1
90°-180°	12965.0	56.5
0°-180°	22965.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3662	3662	3662	3662	3662	
5°	3676	3639	3652	3642	3638	349
15°	3537	3507	3537	3537	3533	997
25°	3266	3242	3289	3279	3279	1503
35°	2872	2866	2916	2896	2896	1796
45°	2394	2387	2411	2380	2374	1843
55°	1831	1808	1807	1780	1780	1632
65°	1187	1160	1163	1153	1153	1174
75°	512	535	566	570	570	553
85°	75	114	136	139	136	102
90°	5	15	31	33	33	13
95°	143	511	1540	788	545	150
105°	468	728	2799	4188	3930	492
115°	826	1012	2331	4504	5094	813
125°	1128	1296	2093	3537	4163	1007
135°	1359	1516	2034	2854	3231	1049
145°	1571	1694	2008	2440	2620	985
155°	1783	1848	1990	2189	2259	821
165°	1934	1957	1998	2078	2088	545
175°	2011	2008	2001	2029	2024	191
180°	2008	2008	2008	2008	2008	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3662.3	3662.3	3662.3	3662.3	3662.3
2.5°	3684.0	3652.1	3662.3	3653.8	3640.6
5°	3675.8	3639.4	3652.1	3641.9	3638.5
7.5°	3649.4	3612.9	3629.7	3622.9	3619.5
10°	3625.0	3588.5	3608.0	3601.2	3597.8
12.5°	3592.4	3558.6	3580.9	3574.1	3573.4
15°	3536.8	3507.0	3536.8	3536.7	3533.4
17.5°	3467.0	3439.8	3471.7	3473.7	3471.7
20°	3418.1	3388.3	3428.3	3425.0	3428.3
22.5°	3358.4	3333.9	3376.8	3368.0	3371.3
25°	3265.5	3242.3	3289.3	3279.1	3279.1
27.5°	3155.7	3139.1	3190.2	3179.4	3179.4
30°	3082.4	3065.8	3119.7	3106.1	3106.1
32.5°	3001.0	2989.8	3041.0	3024.8	3024.8
35°	2872.2	2865.5	2916.3	2895.9	2895.9
37.5°	2739.2	2733.3	2779.3	2754.7	2746.7
40°	2641.6	2638.3	2678.9	2651.8	2651.8
42.5°	2543.9	2540.6	2575.8	2543.2	2543.2
45°	2394.0	2387.4	2411.0	2380.3	2373.7
47.5°	2230.6	2224.0	2238.7	2205.4	2202.1
50°	2119.4	2112.7	2119.4	2088.8	2085.5
52.5°	2005.4	1993.5	1994.6	1964.0	1963.4
55°	1831.1	1807.9	1807.4	1780.3	1780.3
57.5°	1646.7	1616.2	1618.9	1595.7	1592.4
60°	1519.2	1486.0	1488.6	1468.2	1464.9
62.5°	1394.4	1355.9	1363.9	1340.8	1340.1
65°	1186.8	1160.3	1163.1	1152.9	1152.9
67.5°	987.5	962.9	980.7	972.5	971.9
70°	841.0	824.4	847.7	847.7	844.4
72.5°	705.3	704.7	733.8	733.9	735.8
75°	512.0	535.2	566.3	569.7	569.7
77.5°	341.8	382.9	417.1	418.4	417.8
80°	244.2	290.6	322.1	328.9	325.5
82.5°	165.5	214.6	240.8	247.5	244.2
85°	74.6	114.4	135.6	139.0	135.6
87.5°	22.7	48.6	60.4	60.8	55.5
90°	5.1	15.1	30.7	33.3	33.3
92.5°	62.4	220.5	436.0	209.9	145.8
95°	143.3	511.0	1540.2	787.6	545.0
97.5°	228.7	585.0	2415.7	2018.1	1521.8
100°	294.2	614.4	2694.1	2818.8	2338.5
102.5°	357.7	655.9	2786.2	3418.4	3024.1
105°	468.2	728.4	2799.0	4187.5	3929.8
107.5°	572.6	804.7	2679.8	4582.7	4649.3
110°	642.2	862.3	2571.3	4705.4	4948.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	715.9	920.0	2466.9	4678.3	5077.1
115°	826.4	1011.5	2330.8	4503.6	5093.9
117.5°	927.2	1100.8	2225.4	4224.7	4882.1
120°	992.7	1160.3	2172.2	4024.5	4699.9
122.5°	1050.0	1215.6	2133.3	3819.8	4493.2
125°	1128.3	1295.9	2092.8	3537.2	4162.7
127.5°	1203.5	1368.6	2067.3	3288.1	3846.4
130°	1248.5	1413.6	2057.0	3145.3	3635.6
132.5°	1293.6	1456.7	2046.8	3019.5	3469.8
135°	1358.6	1516.2	2034.0	2853.6	3231.4
137.5°	1420.5	1571.6	2027.3	2712.9	3023.1
140°	1463.5	1608.5	2021.2	2626.3	2906.4
142.5°	1508.5	1643.6	2017.1	2545.4	2781.6
145°	1570.9	1693.5	2008.4	2439.8	2619.9
147.5°	1638.5	1745.0	1999.7	2350.9	2492.5
150°	1683.5	1776.0	1995.6	2295.1	2412.6
152.5°	1724.4	1805.0	1993.6	2249.5	2345.1
155°	1783.3	1848.3	1990.5	2189.1	2259.1
157.5°	1834.9	1885.5	1991.0	2146.6	2193.6
160°	1867.7	1910.2	1993.1	2121.8	2156.8
162.5°	1896.3	1930.9	1995.1	2101.1	2126.1
165°	1934.2	1956.7	1998.2	2077.7	2087.7
167.5°	1964.9	1977.9	2000.7	2059.7	2063.7
170°	1985.4	1990.4	2000.7	2049.3	2049.3
172.5°	1997.7	1998.7	2002.8	2039.1	2039.1
175°	2011.0	2008.5	2000.7	2028.8	2023.8
177.5°	2016.6	2012.6	2002.3	2018.6	2014.5
180°	2008.4	2008.4	2008.4	2008.4	2008.4

(END OF REPORT)