

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: P563681

Luminaire Tested: **SQ4-PP3-125U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563681  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-125U-075D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

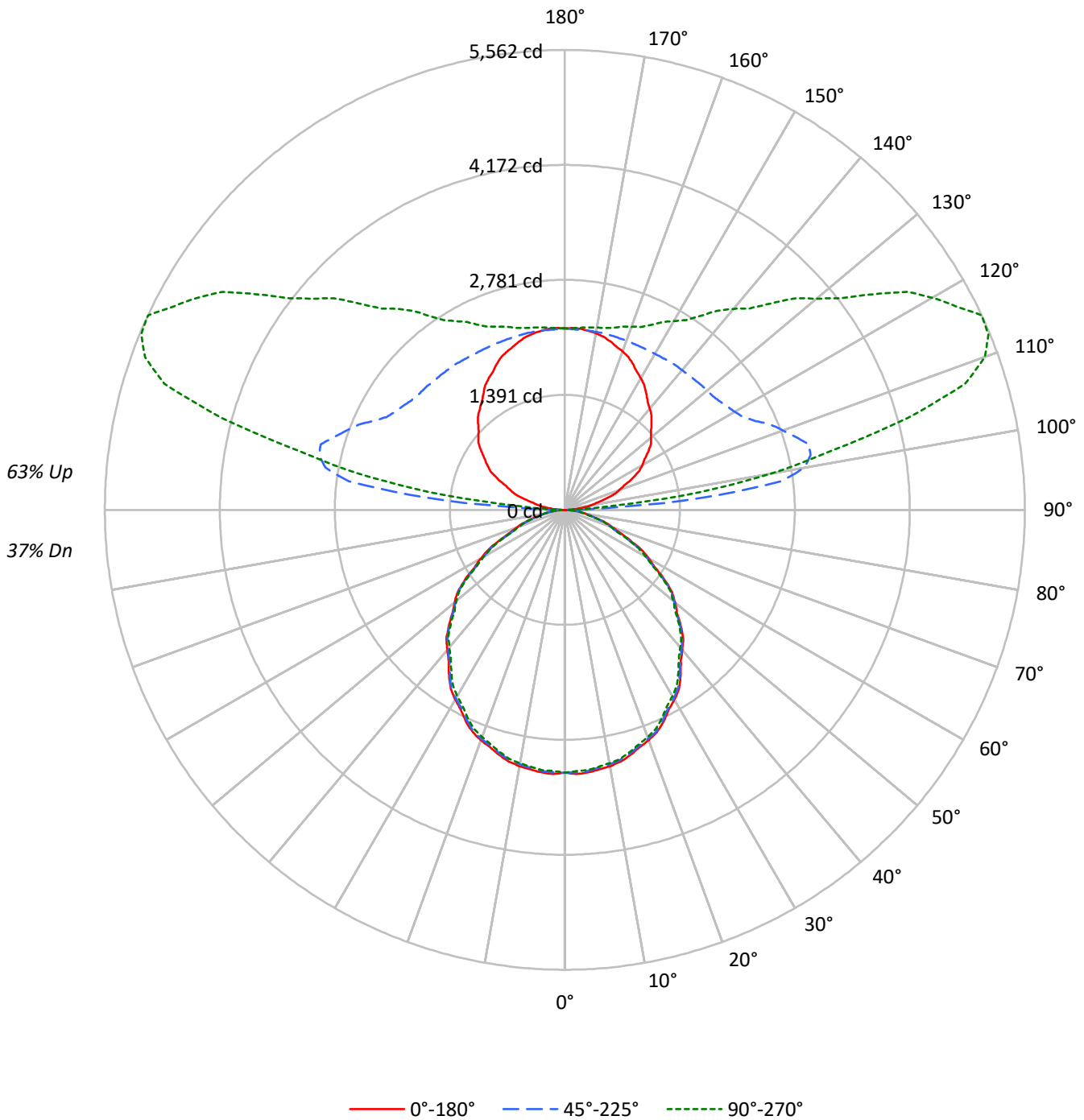
Lumens per Lamp: N/A  
Luminaire Lumens: 22297.3 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 172.4  
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

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

	0°	45°	90°
0°	9776	9776	9776
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9712	9659
20°	9701	9646	9574
25°	9586	9520	9425
30°	9408	9359	9240
35°	9162	9099	8985
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7180	6974	6940
65°	6325	6062	6041
70°	5461	5236	5236
75°	4701	4634	4569
80°	4144	4194	4095
85°	3243	3539	3539



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	300.6	1.3
10°-20°	858.2	3.8
20°-30°	1285.5	5.8
30°-40°	1507.9	6.8
40°-50°	1512.6	6.8
50°-60°	1290.3	5.8
60°-70°	841.5	3.8
70°-80°	422.2	1.9
80°-90°	122.0	0.5
90°-100°	1025.9	4.6
100°-110°	2763.4	12.4
110°-120°	2900.1	13.0
120°-130°	2353.3	10.6
130°-140°	1845.6	8.3
140°-150°	1417.0	6.4
150°-160°	1018.8	4.6
160°-170°	622.4	2.8
170°-180°	209.9	0.9
0°-30°	2444.4	11.0
0°-40°	3952.2	17.7
0°-60°	6755.1	30.3
0°-90°	8140.9	36.5
90°-120°	6689.3	30.0
90°-150°	12305.3	55.2
90°-180°	14156.0	63.5
0°-180°	22297.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3179	3179	3179	3179	3179	
5°	3190	3160	3170	3159	3159	303
15°	3067	3037	3050	3039	3034	865
25°	2825	2792	2805	2780	2778	1299
35°	2440	2416	2424	2396	2393	1524
45°	1984	1970	1970	1950	1950	1527
55°	1471	1466	1451	1443	1440	1307
65°	869	853	833	828	830	867
75°	396	396	390	387	384	429
85°	92	100	100	100	100	108
90°	6	16	34	36	36	14
95°	156	558	1682	860	595	163
105°	511	795	3056	4572	4291	537
115°	902	1104	2545	4917	5562	888
125°	1232	1415	2285	3862	4545	1100
135°	1483	1655	2221	3116	3528	1145
145°	1715	1849	2193	2664	2861	1076
155°	1947	2018	2173	2390	2467	896
165°	2112	2136	2182	2269	2280	596
175°	2196	2193	2184	2215	2210	209
180°	2193	2193	2193	2193	2193	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3178.7	3178.7	3178.7	3178.7	3178.7
2.5°	3198.8	3172.6	3178.7	3173.9	3160.9
5°	3189.8	3159.9	3170.3	3159.2	3159.2
7.5°	3168.1	3135.4	3145.8	3134.7	3134.1
10°	3148.1	3115.4	3125.8	3114.6	3111.8
12.5°	3119.1	3086.4	3099.0	3085.6	3085.1
15°	3067.3	3037.3	3050.5	3039.3	3033.8
17.5°	3008.8	2976.1	2992.0	2976.4	2974.2
20°	2964.2	2931.5	2947.5	2925.2	2925.2
22.5°	2910.7	2878.0	2896.2	2867.2	2867.2
25°	2824.9	2792.2	2805.4	2780.3	2777.5
27.5°	2722.9	2690.8	2704.5	2676.1	2675.6
30°	2649.4	2619.4	2635.4	2604.7	2602.0
32.5°	2569.1	2541.4	2553.0	2522.3	2519.6
35°	2440.4	2415.9	2423.7	2395.8	2393.1
37.5°	2305.0	2280.0	2288.9	2264.9	2263.8
40°	2209.2	2192.9	2195.3	2175.7	2170.2
42.5°	2120.1	2101.5	2103.9	2084.4	2083.3
45°	1983.6	1969.9	1969.6	1950.1	1950.1
47.5°	1838.7	1828.3	1825.3	1809.1	1808.6
50°	1738.4	1730.2	1727.2	1713.3	1710.5
52.5°	1633.6	1629.8	1620.3	1608.6	1608.0
55°	1470.9	1465.5	1451.4	1443.0	1440.3
57.5°	1294.3	1283.4	1267.6	1255.4	1257.5
60°	1167.3	1156.4	1133.9	1128.3	1128.3
62.5°	1044.7	1031.6	1009.0	1001.3	1005.7
65°	869.2	852.9	833.0	827.5	830.2
67.5°	709.8	695.1	673.6	673.6	671.4
70°	607.3	599.2	582.3	582.3	582.3
72.5°	515.9	512.1	499.8	499.7	497.6
75°	395.6	395.6	390.0	387.2	384.5
77.5°	296.4	297.5	294.7	291.8	286.9
80°	234.0	239.5	236.8	234.0	231.2
82.5°	176.1	181.5	181.1	176.1	175.5
85°	91.9	100.1	100.3	100.3	100.3
87.5°	25.6	36.5	42.4	43.0	45.2
90°	5.6	16.5	33.5	36.3	36.3
92.5°	68.2	240.8	476.0	229.2	159.2
95°	156.4	558.0	1681.7	860.0	595.0
97.5°	249.7	638.7	2637.6	2203.5	1661.6
100°	321.3	670.9	2941.6	3077.7	2553.3
102.5°	390.5	716.1	3042.1	3732.4	3301.9
105°	511.2	795.3	3056.1	4572.2	4290.8
107.5°	625.2	878.7	2925.9	5003.7	5076.4
110°	701.2	941.5	2807.5	5137.7	5402.6

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	781.6	1004.5	2693.5	5108.0	5543.4
115°	902.3	1104.4	2544.9	4917.3	5561.9
117.5°	1012.4	1201.9	2429.8	4612.7	5330.6
120°	1083.9	1266.9	2371.7	4394.2	5131.7
122.5°	1146.5	1327.3	2329.2	4170.7	4906.0
125°	1231.9	1414.9	2285.1	3862.2	4545.0
127.5°	1314.1	1494.3	2257.2	3590.1	4199.8
130°	1363.2	1543.5	2246.0	3434.2	3969.6
132.5°	1412.4	1590.5	2234.8	3296.9	3788.6
135°	1483.4	1655.4	2220.8	3115.8	3528.2
137.5°	1551.0	1715.9	2213.6	2962.1	3300.8
140°	1597.9	1756.3	2206.9	2867.5	3173.4
142.5°	1647.1	1794.5	2202.4	2779.3	3037.1
145°	1715.2	1849.1	2192.9	2663.9	2860.6
147.5°	1789.0	1905.3	2183.4	2566.8	2721.4
150°	1838.1	1939.2	2178.9	2505.9	2634.3
152.5°	1882.8	1970.8	2176.7	2456.2	2560.5
155°	1947.1	2018.1	2173.3	2390.2	2466.7
157.5°	2003.5	2058.7	2173.9	2343.8	2395.2
160°	2039.3	2085.7	2176.1	2316.7	2354.9
162.5°	2070.5	2108.2	2178.4	2294.1	2321.4
165°	2111.9	2136.5	2181.7	2268.6	2279.5
167.5°	2145.4	2159.6	2184.5	2248.9	2253.2
170°	2167.8	2173.2	2184.5	2237.6	2237.6
172.5°	2181.2	2182.3	2186.8	2226.4	2226.4
175°	2195.7	2193.0	2184.5	2215.1	2209.7
177.5°	2201.8	2197.5	2186.2	2204.0	2199.6
180°	2192.9	2192.9	2192.9	2192.9	2192.9

(END OF REPORT)