

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: P563731

Luminaire Tested: **SQ4-PP3-125U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563731
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-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

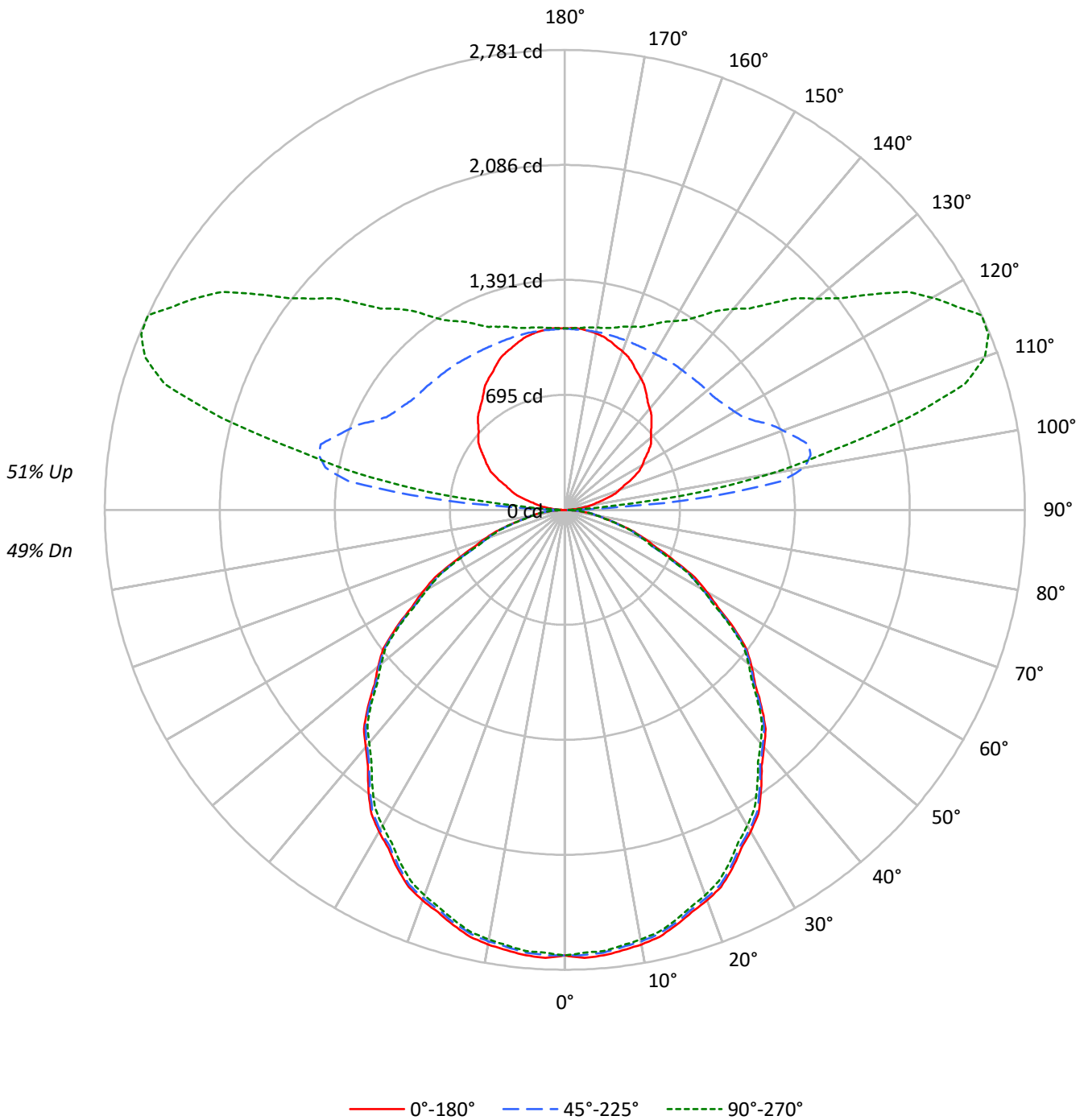
Lumens per Lamp: N/A
Luminaire Lumens: 13978.2 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 117.2
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49				
1	98	94	90	86	90	86	83	80	73	71	69	61	59	58	49	48	47	42				
2	89	82	76	71	82	76	71	66	64	60	57	54	51	48	44	42	40	35				
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	39	36	34	30				
4	75	64	56	50	69	59	52	47	50	45	41	42	38	35	35	32	30	26				
5	68	57	49	43	63	53	46	40	45	40	35	38	34	31	31	28	26	23				
6	63	51	43	37	58	48	40	35	41	35	31	34	30	27	28	25	23	20				
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20	18				
8	54	42	34	29	50	39	32	27	34	28	24	29	24	21	24	21	18	16				
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14				
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16595	16537
10°	16669	16551	16477
15°	16559	16469	16379
20°	16449	16357	16233
25°	16253	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15039	14944	14773
45°	14628	14525	14381
50°	14103	14013	13877
55°	13373	13195	13095
60°	12174	11826	11768
65°	10725	10278	10243
70°	9260	8877	8877
75°	7971	7859	7745
80°	7028	7113	6943
85°	5498	5999	5999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.8	1.8
10°-20°	727.6	5.2
20°-30°	1089.9	7.8
30°-40°	1278.4	9.1
40°-50°	1282.4	9.2
50°-60°	1094.0	7.8
60°-70°	713.4	5.1
70°-80°	357.9	2.6
80°-90°	101.6	0.7
90°-100°	512.9	3.7
100°-110°	1381.7	9.9
110°-120°	1450.0	10.4
120°-130°	1176.7	8.4
130°-140°	922.8	6.6
140°-150°	708.5	5.1
150°-160°	509.4	3.6
160°-170°	311.2	2.2
170°-180°	105.0	0.8
0°-30°	2072.3	14.8
0°-40°	3350.7	24.0
0°-60°	5727.0	41.0
0°-90°	6900.0	49.4
90°-120°	3344.6	23.9
90°-150°	6152.6	44.0
90°-180°	7078.0	50.6
0°-180°	13978.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2695	2695	2695	2695	2695	
5°	2704	2679	2688	2678	2678	257
15°	2600	2575	2586	2577	2572	734
25°	2395	2367	2378	2357	2355	1101
35°	2069	2048	2055	2031	2029	1292
45°	1682	1670	1670	1653	1653	1295
55°	1247	1242	1230	1223	1221	1108
65°	737	723	706	702	704	735
75°	335	335	331	328	326	364
85°	78	85	85	85	85	92
90°	3	8	17	18	18	8
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2694.9	2694.9	2694.9	2694.9	2694.9
2.5°	2711.9	2689.7	2694.9	2690.9	2679.8
5°	2704.3	2678.9	2687.8	2678.4	2678.4
7.5°	2685.9	2658.2	2667.0	2657.6	2657.1
10°	2668.9	2641.2	2650.0	2640.5	2638.2
12.5°	2644.4	2616.6	2627.4	2616.0	2615.5
15°	2600.4	2575.0	2586.3	2576.7	2572.1
17.5°	2550.8	2523.1	2536.7	2523.4	2521.5
20°	2513.0	2485.3	2498.9	2480.0	2480.0
22.5°	2467.7	2440.0	2455.4	2430.8	2430.8
25°	2394.9	2367.2	2378.4	2357.1	2354.8
27.5°	2308.5	2281.2	2292.9	2268.8	2268.3
30°	2246.1	2220.7	2234.3	2208.3	2206.0
32.5°	2178.1	2154.6	2164.4	2138.4	2136.1
35°	2069.0	2048.2	2054.8	2031.2	2028.9
37.5°	1954.2	1933.0	1940.5	1920.2	1919.3
40°	1873.0	1859.1	1861.2	1844.5	1839.9
42.5°	1797.4	1781.7	1783.7	1767.1	1766.2
45°	1681.7	1670.1	1669.8	1653.3	1653.3
47.5°	1558.8	1550.1	1547.5	1533.8	1533.3
50°	1473.8	1466.9	1464.4	1452.5	1450.2
52.5°	1385.0	1381.8	1373.7	1363.7	1363.3
55°	1247.1	1242.5	1230.5	1223.4	1221.1
57.5°	1097.3	1088.1	1074.7	1064.3	1066.2
60°	989.6	980.4	961.3	956.6	956.6
62.5°	885.7	874.6	855.5	848.9	852.6
65°	736.9	723.0	706.2	701.5	703.8
67.5°	601.8	589.3	571.1	571.1	569.2
70°	514.9	508.0	493.6	493.6	493.6
72.5°	437.4	434.2	423.7	423.7	421.8
75°	335.4	335.4	330.7	328.2	325.9
77.5°	251.3	252.2	249.9	247.4	243.3
80°	198.4	203.0	200.8	198.3	196.0
82.5°	149.3	153.9	153.5	149.3	148.8
85°	77.9	84.9	85.0	85.0	85.0
87.5°	21.3	29.8	33.6	33.9	35.8
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)