

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: P563067

Luminaire Tested: **SQ4-PC3-125U-125D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563067
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-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

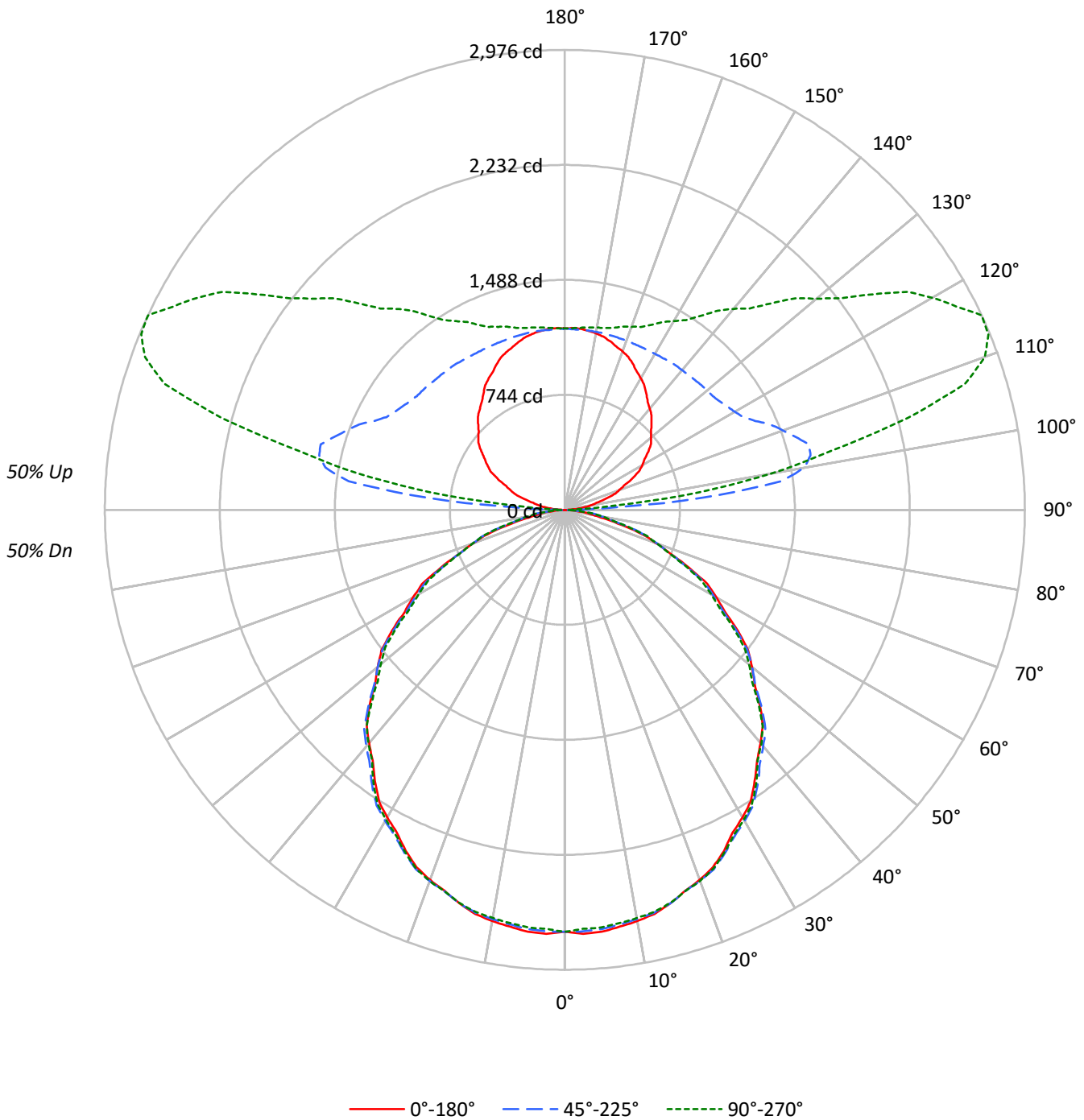
Lumens per Lamp: N/A
Luminaire Lumens: 15028.7 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	0
RCR																		
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	57	49	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	50	48	43	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	63	56	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16753
15°	16791	16791	16774
20°	16680	16730	16730
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15873
45°	15525	15635	15393
50°	15119	15119	14878
55°	14639	14450	14232
60°	13933	13652	13435
65°	12877	12620	12509
70°	11276	11366	11321
75°	9071	10034	10093
80°	6447	8508	8597
85°	3924	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.4	1.7
10°-20°	741.5	4.9
20°-30°	1122.9	7.5
30°-40°	1346.2	9.0
40°-50°	1372.7	9.1
50°-60°	1198.3	8.0
60°-70°	857.9	5.7
70°-80°	441.9	2.9
80°-90°	114.5	0.8
90°-100°	548.9	3.7
100°-110°	1478.5	9.8
110°-120°	1551.7	10.3
120°-130°	1259.2	8.4
130°-140°	987.5	6.6
140°-150°	758.2	5.0
150°-160°	545.1	3.6
160°-170°	333.0	2.2
170°-180°	112.3	0.7
0°-30°	2122.8	14.1
0°-40°	3469.1	23.1
0°-60°	6040.0	40.2
0°-90°	7454.2	49.6
90°-120°	3579.1	23.8
90°-150°	6584.0	43.8
90°-180°	7574.0	50.4
0°-180°	15028.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2730	2730	2730	2730	2730	
5°	2740	2713	2723	2715	2713	260
15°	2637	2614	2637	2637	2634	743
25°	2434	2417	2452	2445	2445	1120
35°	2141	2136	2174	2159	2159	1339
45°	1785	1780	1797	1775	1770	1374
55°	1365	1348	1348	1327	1327	1217
65°	885	865	867	860	860	875
75°	382	399	422	425	425	413
85°	56	85	101	104	101	76
90°	3	9	18	19	19	8
95°	84	298	900	460	318	87
105°	274	426	1635	2446	2296	288
115°	483	591	1362	2631	2976	475
125°	659	757	1223	2066	2432	589
135°	794	886	1188	1667	1888	613
145°	918	989	1173	1425	1530	576
155°	1042	1080	1163	1279	1320	480
165°	1130	1143	1167	1214	1220	319
175°	1175	1173	1169	1185	1182	112
180°	1173	1173	1173	1173	1173	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2730.3	2730.3	2730.3	2730.3	2730.3
2.5°	2746.5	2722.7	2730.3	2724.0	2714.1
5°	2740.4	2713.2	2722.7	2715.1	2712.6
7.5°	2720.7	2693.5	2706.0	2700.9	2698.4
10°	2702.5	2675.3	2689.8	2684.7	2682.3
12.5°	2678.2	2653.0	2669.6	2664.6	2664.1
15°	2636.8	2614.5	2636.8	2636.7	2634.2
17.5°	2584.7	2564.4	2588.2	2589.7	2588.2
20°	2548.3	2526.0	2555.9	2553.4	2555.9
22.5°	2503.8	2485.5	2517.4	2510.9	2513.4
25°	2434.5	2417.2	2452.2	2444.6	2444.6
27.5°	2352.6	2340.2	2378.4	2370.3	2370.3
30°	2298.0	2285.6	2325.8	2315.7	2315.7
32.5°	2237.3	2228.9	2267.2	2255.0	2255.0
35°	2141.3	2136.3	2174.1	2159.0	2159.0
37.5°	2042.2	2037.7	2072.0	2053.7	2047.7
40°	1969.4	1966.9	1997.2	1976.9	1976.9
42.5°	1896.5	1894.1	1920.3	1896.0	1896.0
45°	1784.8	1779.9	1797.4	1774.6	1769.6
47.5°	1663.0	1658.0	1669.0	1644.2	1641.7
50°	1580.0	1575.1	1580.0	1557.2	1554.8
52.5°	1495.1	1486.2	1487.0	1464.2	1463.7
55°	1365.1	1347.8	1347.5	1327.2	1327.2
57.5°	1227.6	1204.9	1206.9	1189.6	1187.2
60°	1132.6	1107.8	1109.8	1094.6	1092.1
62.5°	1039.5	1010.9	1016.8	999.6	999.1
65°	884.8	865.0	867.1	859.5	859.5
67.5°	736.2	717.9	731.1	725.0	724.5
70°	627.0	614.6	632.0	632.0	629.5
72.5°	525.8	525.3	547.1	547.1	548.6
75°	381.7	399.0	422.2	424.7	424.7
77.5°	254.8	285.5	311.0	312.0	311.5
80°	182.0	216.6	240.2	245.2	242.7
82.5°	123.4	160.0	179.5	184.5	182.0
85°	55.6	85.3	101.1	103.6	101.1
87.5°	16.8	35.7	44.0	44.2	40.3
90°	3.0	8.8	17.9	19.4	19.4
92.5°	36.5	128.8	254.7	122.6	85.2
95°	83.7	298.5	899.8	460.1	318.4
97.5°	133.6	341.7	1411.3	1179.0	889.0
100°	171.9	359.0	1573.9	1646.7	1366.1
102.5°	209.0	383.2	1627.7	1997.0	1766.7
105°	273.5	425.5	1635.2	2446.3	2295.8
107.5°	334.5	470.1	1565.5	2677.2	2716.1
110°	375.2	503.8	1502.1	2748.9	2890.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.2	537.5	1441.2	2733.1	2966.0
115°	482.8	590.9	1361.6	2631.0	2975.9
117.5°	541.7	643.1	1300.1	2468.1	2852.1
120°	579.9	677.8	1269.0	2351.1	2745.7
122.5°	613.4	710.2	1246.3	2231.5	2624.9
125°	659.1	757.1	1222.6	2066.5	2431.8
127.5°	703.1	799.5	1207.7	1920.9	2247.1
130°	729.4	825.9	1201.7	1837.5	2123.9
132.5°	755.7	851.0	1195.7	1764.0	2027.1
135°	793.7	885.7	1188.3	1667.1	1887.8
137.5°	829.8	918.1	1184.4	1584.9	1766.1
140°	855.0	939.7	1180.8	1534.3	1697.9
142.5°	881.3	960.2	1178.4	1487.0	1625.0
145°	917.7	989.3	1173.3	1425.3	1530.5
147.5°	957.2	1019.4	1168.2	1373.4	1456.1
150°	983.5	1037.6	1165.8	1340.8	1409.5
152.5°	1007.4	1054.5	1164.6	1314.2	1370.0
155°	1041.8	1079.8	1162.9	1278.9	1319.8
157.5°	1072.0	1101.5	1163.2	1254.1	1281.5
160°	1091.1	1116.0	1164.3	1239.5	1260.0
162.5°	1107.8	1128.0	1165.5	1227.5	1242.1
165°	1130.0	1143.1	1167.3	1213.8	1219.7
167.5°	1147.9	1155.5	1168.8	1203.3	1205.6
170°	1159.9	1162.8	1168.8	1197.2	1197.2
172.5°	1167.0	1167.6	1170.0	1191.3	1191.3
175°	1174.8	1173.3	1168.8	1185.2	1182.3
177.5°	1178.1	1175.8	1169.7	1179.2	1176.9
180°	1173.3	1173.3	1173.3	1173.3	1173.3

(END OF REPORT)