

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: P562972

Luminaire Tested: **SQ4-PC3-100U-125D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562972
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-125D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

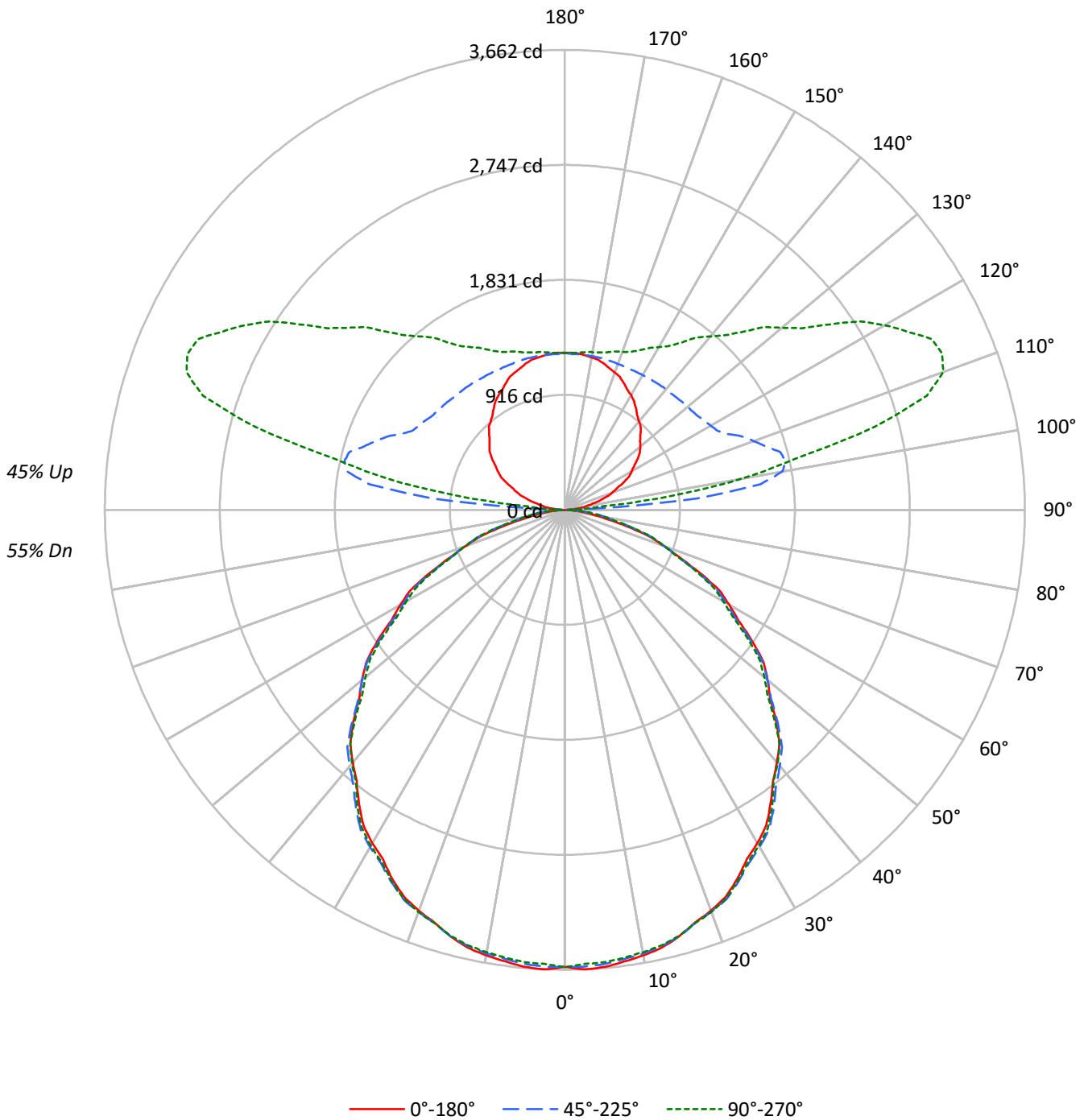
Lumens per Lamp: N/A
Luminaire Lumens: 18051.4 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 140.6
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55				
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51	47				
2	90	83	76	71	83	77	72	67	66	62	59	56	54	51	47	45	43	39				
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33				
4	75	64	56	50	70	60	53	47	52	46	42	44	40	37	37	34	32	28				
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24				
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	31	27	24	21				
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	22	19				
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	26	22	19	17				
9	51	38	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17	15				
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16811	16748
10°	16879	16800	16753
15°	16790	16790	16774
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16519	16447
35°	16078	16325	16211
40°	15813	16036	15873
45°	15525	15635	15393
50°	15119	15119	14877
55°	14639	14450	14232
60°	13932	13653	13435
65°	12878	12621	12510
70°	11274	11366	11320
75°	9072	10033	10094
80°	6448	8506	8597
85°	3927	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	344.5	1.9
10°-20°	988.7	5.5
20°-30°	1497.2	8.3
30°-40°	1795.0	9.9
40°-50°	1830.3	10.1
50°-60°	1597.7	8.9
60°-70°	1143.8	6.3
70°-80°	589.1	3.3
80°-90°	151.6	0.8
90°-100°	584.8	3.2
100°-110°	1614.4	8.9
110°-120°	1664.9	9.2
120°-130°	1337.9	7.4
130°-140°	1051.5	5.8
140°-150°	806.4	4.5
150°-160°	579.6	3.2
160°-170°	354.4	2.0
170°-180°	119.5	0.7
0°-30°	2830.4	15.7
0°-40°	4625.4	25.6
0°-60°	8053.4	44.6
0°-90°	9937.9	55.1
90°-120°	3864.1	21.4
90°-150°	7060.0	39.1
90°-180°	8113.0	44.9
0°-180°	18051.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3640	3640	3640	3640	3640	
5°	3654	3618	3630	3620	3617	347
15°	3516	3486	3516	3516	3512	991
25°	3246	3223	3270	3260	3260	1494
35°	2855	2848	2899	2879	2879	1786
45°	2380	2373	2397	2366	2360	1832
55°	1820	1797	1797	1770	1770	1623
65°	1180	1153	1156	1146	1146	1167
75°	509	532	563	566	566	550
85°	74	114	135	138	135	101
90°	4	8	16	18	20	9
95°	86	316	1061	436	284	92
105°	288	444	1776	2712	2553	306
115°	516	623	1430	2832	3221	507
125°	707	805	1297	2194	2575	629
135°	851	943	1261	1777	2004	659
145°	987	1055	1245	1513	1628	618
155°	1113	1150	1235	1358	1401	513
165°	1205	1220	1241	1289	1299	340
175°	1249	1251	1243	1261	1257	119
180°	1249	1249	1249	1249	1249	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3640.4	3640.4	3640.4	3640.4	3640.4
2.5°	3662.0	3630.3	3640.4	3632.0	3618.8
5°	3653.9	3617.6	3630.3	3620.1	3616.8
7.5°	3627.6	3591.3	3608.0	3601.2	3597.9
10°	3603.3	3567.1	3586.5	3579.6	3576.4
12.5°	3571.0	3537.3	3559.5	3552.7	3552.1
15°	3515.7	3486.0	3515.7	3515.6	3512.3
17.5°	3446.2	3419.2	3451.0	3452.9	3451.0
20°	3397.7	3368.0	3407.8	3404.5	3407.8
22.5°	3338.4	3314.0	3356.6	3347.9	3351.2
25°	3246.0	3222.9	3269.6	3259.5	3259.5
27.5°	3136.8	3120.3	3171.2	3160.4	3160.4
30°	3064.0	3047.5	3101.1	3087.6	3087.6
32.5°	2983.1	2971.9	3022.9	3006.7	3006.7
35°	2855.0	2848.4	2898.8	2878.6	2878.6
37.5°	2722.9	2716.9	2762.7	2738.2	2730.3
40°	2625.8	2622.5	2662.9	2635.9	2635.9
42.5°	2528.7	2525.4	2560.4	2528.1	2528.1
45°	2379.7	2373.1	2396.6	2366.1	2359.5
47.5°	2217.3	2210.7	2225.4	2192.3	2189.0
50°	2106.7	2100.1	2106.7	2076.3	2073.0
52.5°	1993.5	1981.6	1982.7	1952.3	1951.7
55°	1820.2	1797.1	1796.6	1769.6	1769.6
57.5°	1636.8	1606.5	1609.2	1586.2	1582.9
60°	1510.1	1477.1	1479.8	1459.5	1456.2
62.5°	1386.0	1347.8	1355.7	1332.8	1332.1
65°	1179.8	1153.4	1156.2	1146.1	1146.1
67.5°	981.6	957.2	974.8	966.7	966.1
70°	835.9	819.5	842.7	842.6	839.3
72.5°	701.1	700.5	729.4	729.5	731.4
75°	509.0	532.1	562.9	566.3	566.3
77.5°	339.8	380.6	414.6	415.9	415.3
80°	242.7	288.8	320.2	326.9	323.6
82.5°	164.5	213.3	239.3	246.0	242.7
85°	74.2	113.7	134.8	138.1	134.8
87.5°	22.4	46.9	57.1	57.4	52.5
90°	4.0	7.9	16.0	18.0	20.0
92.5°	36.0	149.3	266.9	97.4	75.9
95°	85.9	316.4	1060.9	436.1	283.7
97.5°	142.3	354.4	1571.6	1210.0	876.3
100°	183.8	377.2	1760.2	1772.6	1440.5
102.5°	223.8	403.1	1796.9	2190.2	1875.3
105°	287.7	444.0	1776.2	2711.6	2553.4
107.5°	355.6	494.7	1677.1	2963.1	3020.9
110°	403.6	528.6	1600.3	3017.1	3204.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	446.7	567.1	1528.4	2974.4	3251.0
115°	515.5	622.9	1430.5	2831.9	3220.7
117.5°	575.4	682.5	1366.2	2631.3	3073.6
120°	615.4	720.9	1340.6	2495.6	2941.0
122.5°	653.7	754.5	1319.8	2368.8	2790.7
125°	707.3	804.9	1296.7	2194.4	2575.3
127.5°	752.8	850.5	1283.1	2047.0	2375.5
130°	783.2	880.9	1276.7	1956.8	2255.7
132.5°	812.0	904.9	1270.3	1881.0	2151.8
135°	851.1	942.9	1260.7	1777.3	2003.9
137.5°	895.1	978.7	1255.9	1690.3	1883.7
140°	919.1	1001.1	1252.7	1632.2	1802.1
142.5°	946.2	1022.0	1249.5	1580.6	1730.2
145°	987.0	1055.4	1244.7	1513.1	1628.3
147.5°	1026.1	1085.9	1240.3	1456.1	1545.6
150°	1054.9	1103.7	1238.7	1422.2	1494.5
152.5°	1077.3	1123.0	1237.1	1393.1	1452.9
155°	1112.9	1150.0	1234.7	1357.6	1400.6
157.5°	1145.6	1174.1	1235.1	1331.7	1361.0
160°	1164.8	1190.2	1236.7	1317.1	1338.6
162.5°	1180.8	1203.1	1238.3	1304.2	1321.0
165°	1204.8	1220.4	1240.7	1288.9	1298.7
167.5°	1223.1	1232.5	1242.7	1279.5	1282.7
170°	1232.7	1240.5	1242.7	1274.7	1274.7
172.5°	1240.7	1245.4	1242.7	1268.3	1266.7
175°	1248.7	1250.7	1242.7	1260.6	1256.7
177.5°	1251.9	1250.3	1242.3	1253.4	1250.3
180°	1248.7	1248.7	1248.7	1248.7	1248.7

(END OF REPORT)