

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: P563080

Luminaire Tested: **SQ4-PC3-125U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563080
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-940-1D-UNV-STD-W-8
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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

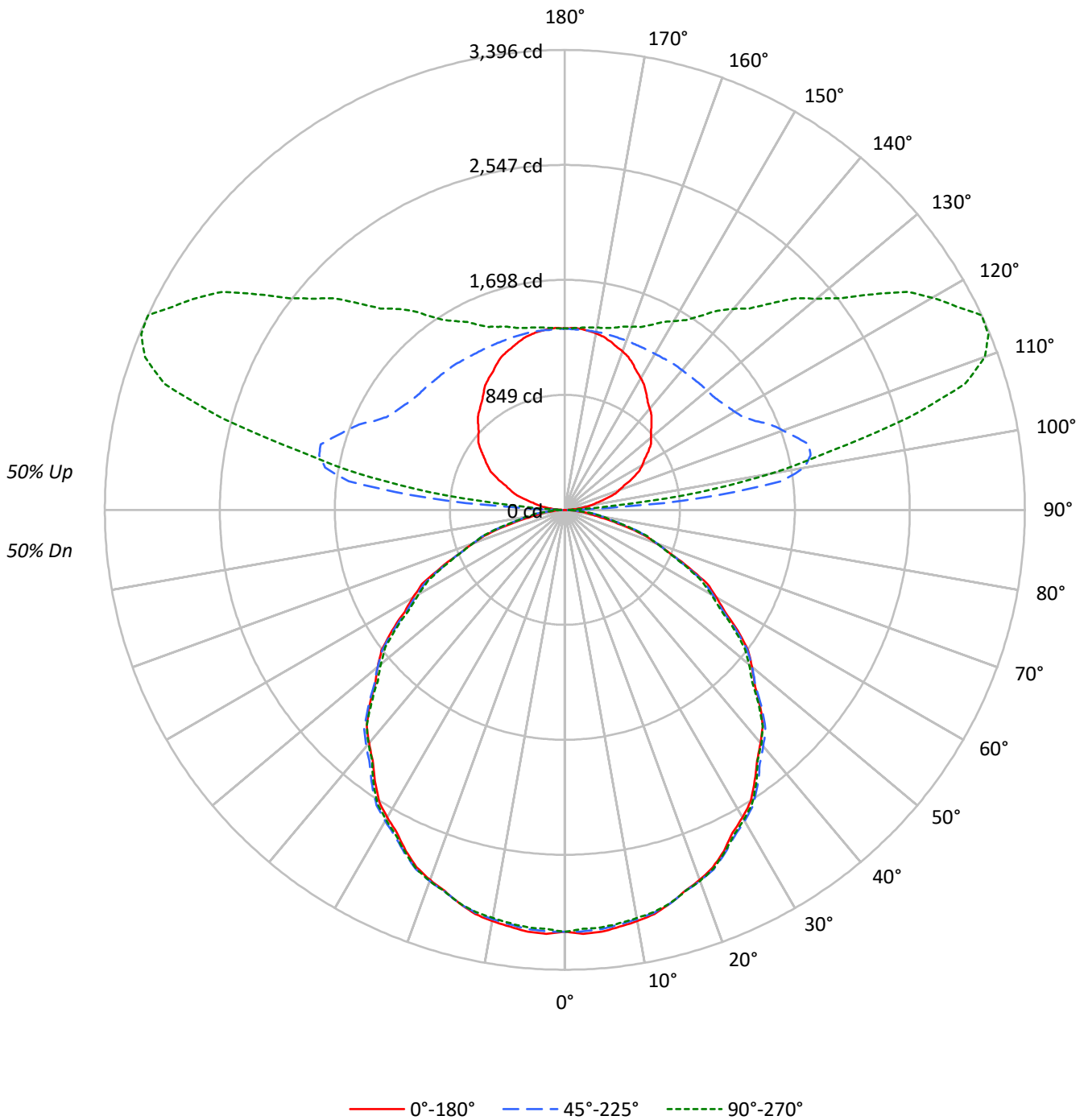
Lumens per Lamp: N/A
Luminaire Lumens: 17150.2 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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°	14373	14373	14373
5°	14481	14388	14334
10°	14446	14378	14338
15°	14370	14370	14357
20°	14276	14318	14318
25°	14141	14244	14200
30°	13969	14138	14076
35°	13761	13972	13874
40°	13533	13725	13586
45°	13287	13382	13174
50°	12940	12940	12733
55°	12530	12367	12181
60°	11924	11685	11499
65°	11021	10801	10707
70°	9651	9727	9688
75°	7764	8587	8639
80°	5518	7282	7359
85°	3361	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	1.7
10°-20°	846.2	4.9
20°-30°	1281.4	7.5
30°-40°	1536.3	9.0
40°-50°	1566.5	9.1
50°-60°	1367.4	8.0
60°-70°	979.0	5.7
70°-80°	504.2	2.9
80°-90°	130.6	0.8
90°-100°	626.4	3.7
100°-110°	1687.3	9.8
110°-120°	1770.7	10.3
120°-130°	1436.9	8.4
130°-140°	1126.9	6.6
140°-150°	865.2	5.0
150°-160°	622.1	3.6
160°-170°	380.0	2.2
170°-180°	128.2	0.7
0°-30°	2422.5	14.1
0°-40°	3958.8	23.1
0°-60°	6892.7	40.2
0°-90°	8506.5	49.6
90°-120°	4084.4	23.8
90°-150°	7513.4	43.8
90°-180°	8644.0	50.4
0°-180°	17150.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3116	3116	3116	3116	3116	
5°	3127	3096	3107	3098	3096	297
15°	3009	2984	3009	3009	3006	848
25°	2778	2758	2798	2790	2790	1279
35°	2444	2438	2481	2464	2464	1528
45°	2037	2031	2051	2025	2019	1568
55°	1558	1538	1538	1515	1515	1389
65°	1010	987	990	981	981	999
75°	436	455	482	485	485	471
85°	64	97	115	118	115	86
90°	3	10	20	22	22	9
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3115.7	3115.7	3115.7	3115.7	3115.7
2.5°	3134.2	3107.1	3115.7	3108.5	3097.2
5°	3127.2	3096.2	3107.0	3098.3	3095.5
7.5°	3104.7	3073.7	3088.0	3082.2	3079.4
10°	3084.0	3052.9	3069.5	3063.7	3060.9
12.5°	3056.3	3027.5	3046.5	3040.7	3040.1
15°	3009.0	2983.6	3009.0	3008.9	3006.1
17.5°	2949.5	2926.4	2953.6	2955.3	2953.6
20°	2908.0	2882.6	2916.6	2913.8	2916.6
22.5°	2857.2	2836.3	2872.8	2865.4	2868.2
25°	2778.2	2758.4	2798.4	2789.7	2789.7
27.5°	2684.7	2670.6	2714.1	2704.9	2704.9
30°	2622.4	2608.3	2654.1	2642.6	2642.6
32.5°	2553.1	2543.6	2587.2	2573.3	2573.3
35°	2443.5	2437.9	2481.0	2463.7	2463.7
37.5°	2330.4	2325.4	2364.5	2343.5	2336.8
40°	2247.3	2244.5	2279.1	2256.0	2256.0
42.5°	2164.3	2161.4	2191.4	2163.7	2163.7
45°	2036.7	2031.1	2051.2	2025.1	2019.4
47.5°	1897.7	1892.1	1904.6	1876.3	1873.5
50°	1803.1	1797.4	1803.1	1777.0	1774.2
52.5°	1706.1	1696.0	1696.9	1670.9	1670.4
55°	1557.9	1538.1	1537.7	1514.6	1514.6
57.5°	1400.9	1375.0	1377.3	1357.6	1354.8
60°	1292.4	1264.2	1266.5	1249.1	1246.3
62.5°	1186.3	1153.6	1160.3	1140.7	1140.1
65°	1009.7	987.2	989.5	980.9	980.9
67.5°	840.1	819.2	834.3	827.4	826.8
70°	715.5	701.4	721.2	721.2	718.3
72.5°	600.1	599.5	624.3	624.3	626.0
75°	435.6	455.4	481.8	484.7	484.7
77.5°	290.8	325.8	354.8	356.0	355.4
80°	207.7	247.2	274.1	279.8	277.0
82.5°	140.8	182.5	204.8	210.5	207.7
85°	63.5	97.3	115.4	118.2	115.4
87.5°	19.1	40.8	50.3	50.5	46.0
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)