

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: P563036

Luminaire Tested: **SQ4-PC3-125U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563036
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-100D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

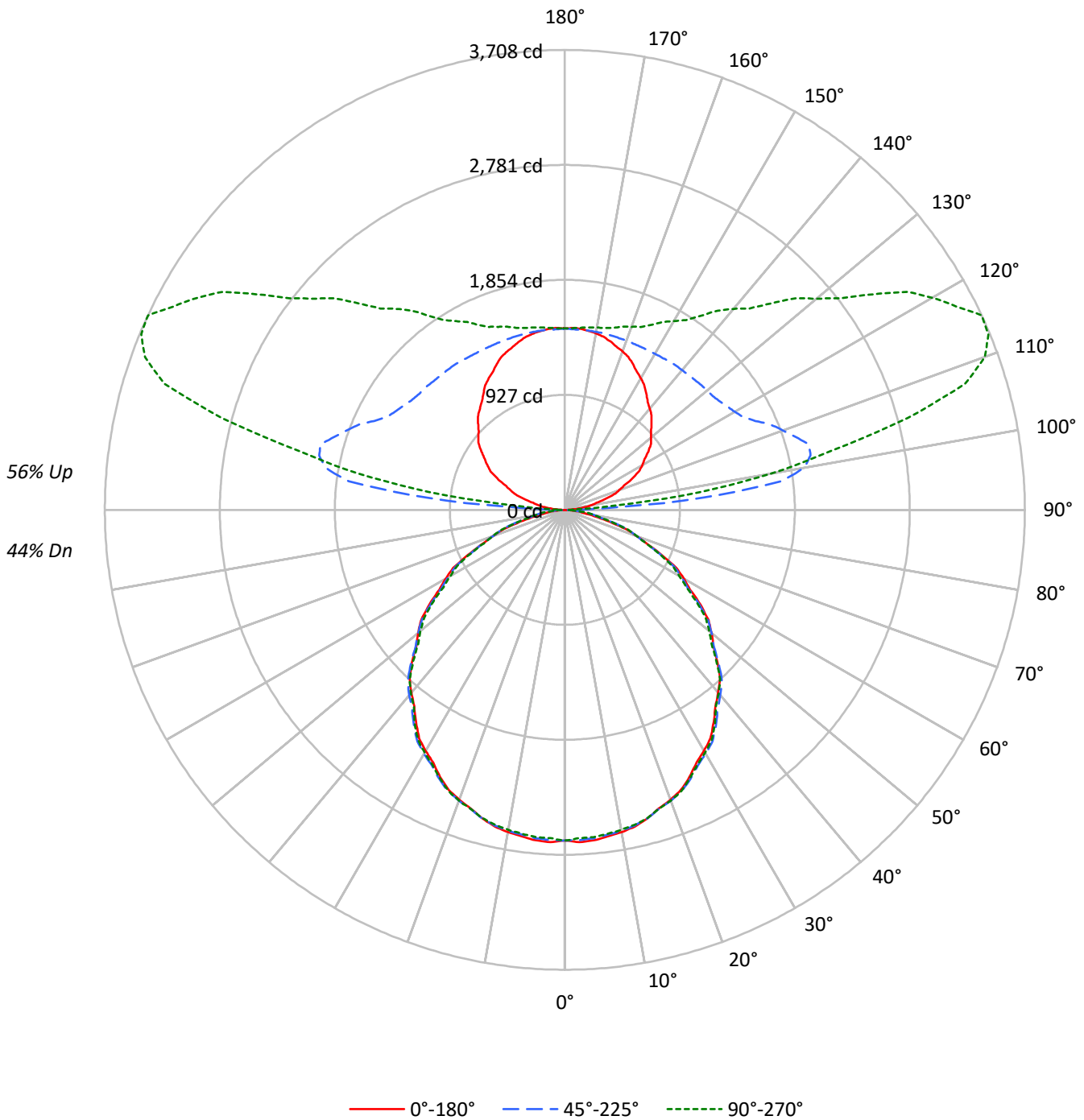
Lumens per Lamp: N/A
Luminaire Lumens: 16716.5 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 133.3
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				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
RCR																					
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44	44	44	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37	37	37	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31	31	31	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26	26	26	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22	22	22	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19	19	19	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17	17	17	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15	15	15	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13	13	13	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11	11	11	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12298	12298	12298
5°	12390	12310	12264
10°	12360	12302	12268
15°	12295	12295	12283
20°	12214	12251	12251
25°	12099	12187	12149
30°	11952	12097	12044
35°	11774	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11072	11072	10894
55°	10720	10581	10423
60°	10202	9998	9838
65°	9430	9241	9160
70°	8256	8323	8290
75°	6643	7347	7391
80°	4721	6230	6296
85°	2874	5224	5224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.3	1.5
10°-20°	724.0	4.3
20°-30°	1096.4	6.6
30°-40°	1314.4	7.9
40°-50°	1340.3	8.0
50°-60°	1170.0	7.0
60°-70°	837.6	5.0
70°-80°	431.4	2.6
80°-90°	112.5	0.7
90°-100°	683.9	4.1
100°-110°	1842.3	11.0
110°-120°	1933.4	11.6
120°-130°	1568.9	9.4
130°-140°	1230.4	7.4
140°-150°	944.7	5.7
150°-160°	679.2	4.1
160°-170°	415.0	2.5
170°-180°	139.9	0.8
0°-30°	2072.7	12.4
0°-40°	3387.1	20.3
0°-60°	5897.3	35.3
0°-90°	7278.9	43.5
90°-120°	4459.5	26.7
90°-150°	8203.5	49.1
90°-180°	9438.0	56.5
0°-180°	16716.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2666	2666	2666	2666	2666	
5°	2676	2649	2658	2651	2648	254
15°	2574	2553	2574	2574	2572	726
25°	2377	2360	2394	2387	2387	1094
35°	2091	2086	2123	2108	2108	1308
45°	1743	1738	1755	1733	1728	1341
55°	1333	1316	1316	1296	1296	1188
65°	864	845	847	839	839	854
75°	373	390	412	415	415	403
85°	54	83	99	101	99	74
90°	4	11	22	24	24	9
95°	104	372	1121	573	397	109
105°	341	530	2037	3048	2861	358
115°	602	736	1697	3278	3708	592
125°	821	943	1523	2575	3030	733
135°	989	1104	1481	2077	2352	763
145°	1144	1233	1462	1776	1907	717
155°	1298	1345	1449	1594	1644	598
165°	1408	1424	1454	1512	1520	397
175°	1464	1462	1456	1477	1473	139
180°	1462	1462	1462	1462	1462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2665.8	2665.8	2665.8	2665.8	2665.8
2.5°	2681.6	2658.4	2665.8	2659.7	2650.0
5°	2675.7	2649.1	2658.4	2650.9	2648.5
7.5°	2656.4	2629.9	2642.1	2637.1	2634.7
10°	2638.6	2612.1	2626.3	2621.3	2618.9
12.5°	2614.9	2590.3	2606.6	2601.6	2601.1
15°	2574.5	2552.7	2574.5	2574.4	2572.0
17.5°	2523.6	2503.8	2527.1	2528.5	2527.1
20°	2488.1	2466.4	2495.5	2493.1	2495.5
22.5°	2444.6	2426.8	2458.0	2451.6	2454.0
25°	2377.0	2360.1	2394.3	2386.9	2386.9
27.5°	2297.0	2285.0	2322.2	2314.3	2314.3
30°	2243.7	2231.6	2270.9	2261.0	2261.0
32.5°	2184.5	2176.3	2213.6	2201.7	2201.7
35°	2090.7	2085.8	2122.8	2108.0	2108.0
37.5°	1993.9	1989.6	2023.0	2005.1	1999.3
40°	1922.8	1920.4	1950.0	1930.2	1930.2
42.5°	1851.7	1849.3	1874.9	1851.2	1851.2
45°	1742.6	1737.8	1755.0	1732.7	1727.8
47.5°	1623.7	1618.8	1629.6	1605.3	1602.9
50°	1542.7	1537.9	1542.7	1520.4	1518.0
52.5°	1459.8	1451.1	1451.9	1429.6	1429.2
55°	1332.9	1316.0	1315.6	1295.9	1295.9
57.5°	1198.6	1176.4	1178.4	1161.5	1159.1
60°	1105.8	1081.7	1083.6	1068.7	1066.3
62.5°	1015.0	987.0	992.8	976.0	975.5
65°	863.9	844.6	846.6	839.2	839.2
67.5°	718.8	700.9	713.8	707.9	707.4
70°	612.1	600.1	617.1	617.0	614.6
72.5°	513.4	512.9	534.1	534.2	535.6
75°	372.7	389.6	412.2	414.7	414.7
77.5°	248.8	278.7	303.6	304.6	304.1
80°	177.7	211.5	234.5	239.4	237.0
82.5°	120.5	156.2	175.3	180.1	177.7
85°	54.3	83.3	98.7	101.1	98.7
87.5°	16.5	35.4	44.0	44.2	40.4
90°	3.7	11.0	22.3	24.2	24.2
92.5°	45.4	160.5	317.3	152.8	106.2
95°	104.3	372.0	1121.1	573.3	396.7
97.5°	166.5	425.8	1758.4	1469.0	1107.7
100°	214.2	447.3	1961.0	2051.8	1702.2
102.5°	260.4	477.4	2028.1	2488.3	2201.3
105°	340.8	530.2	2037.4	3048.1	2860.6
107.5°	416.8	585.8	1950.6	3335.8	3384.2
110°	467.4	627.7	1871.6	3425.1	3601.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	521.1	669.7	1795.7	3405.4	3695.6
115°	601.5	736.3	1696.6	3278.2	3707.9
117.5°	674.9	801.3	1619.9	3075.2	3553.7
120°	722.6	844.6	1581.1	2929.5	3421.1
122.5°	764.3	884.9	1552.8	2780.4	3270.6
125°	821.3	943.3	1523.4	2574.8	3030.0
127.5°	876.0	996.2	1504.8	2393.4	2799.8
130°	908.8	1029.0	1497.3	2289.5	2646.4
132.5°	941.6	1060.3	1489.9	2197.9	2525.7
135°	988.9	1103.6	1480.6	2077.2	2352.1
137.5°	1034.0	1144.0	1475.7	1974.7	2200.5
140°	1065.3	1170.9	1471.2	1911.7	2115.6
142.5°	1098.0	1196.4	1468.3	1852.8	2024.7
145°	1143.5	1232.7	1461.9	1775.9	1907.0
147.5°	1192.6	1270.2	1455.6	1711.2	1814.3
150°	1225.4	1292.8	1452.6	1670.6	1756.2
152.5°	1255.2	1313.9	1451.1	1637.5	1707.0
155°	1298.0	1345.4	1448.9	1593.5	1644.4
157.5°	1335.7	1372.5	1449.3	1562.5	1596.8
160°	1359.5	1390.5	1450.8	1544.5	1570.0
162.5°	1380.4	1405.5	1452.3	1529.4	1547.6
165°	1407.9	1424.3	1454.5	1512.4	1519.7
167.5°	1430.3	1439.7	1456.3	1499.2	1502.2
170°	1445.2	1448.8	1456.3	1491.7	1491.7
172.5°	1454.1	1454.8	1457.8	1484.3	1484.3
175°	1463.8	1462.0	1456.3	1476.8	1473.1
177.5°	1467.9	1465.0	1457.5	1469.3	1466.4
180°	1461.9	1461.9	1461.9	1461.9	1461.9

(END OF REPORT)