

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: P563131

Luminaire Tested: **SQ4-PC3-150U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563131
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

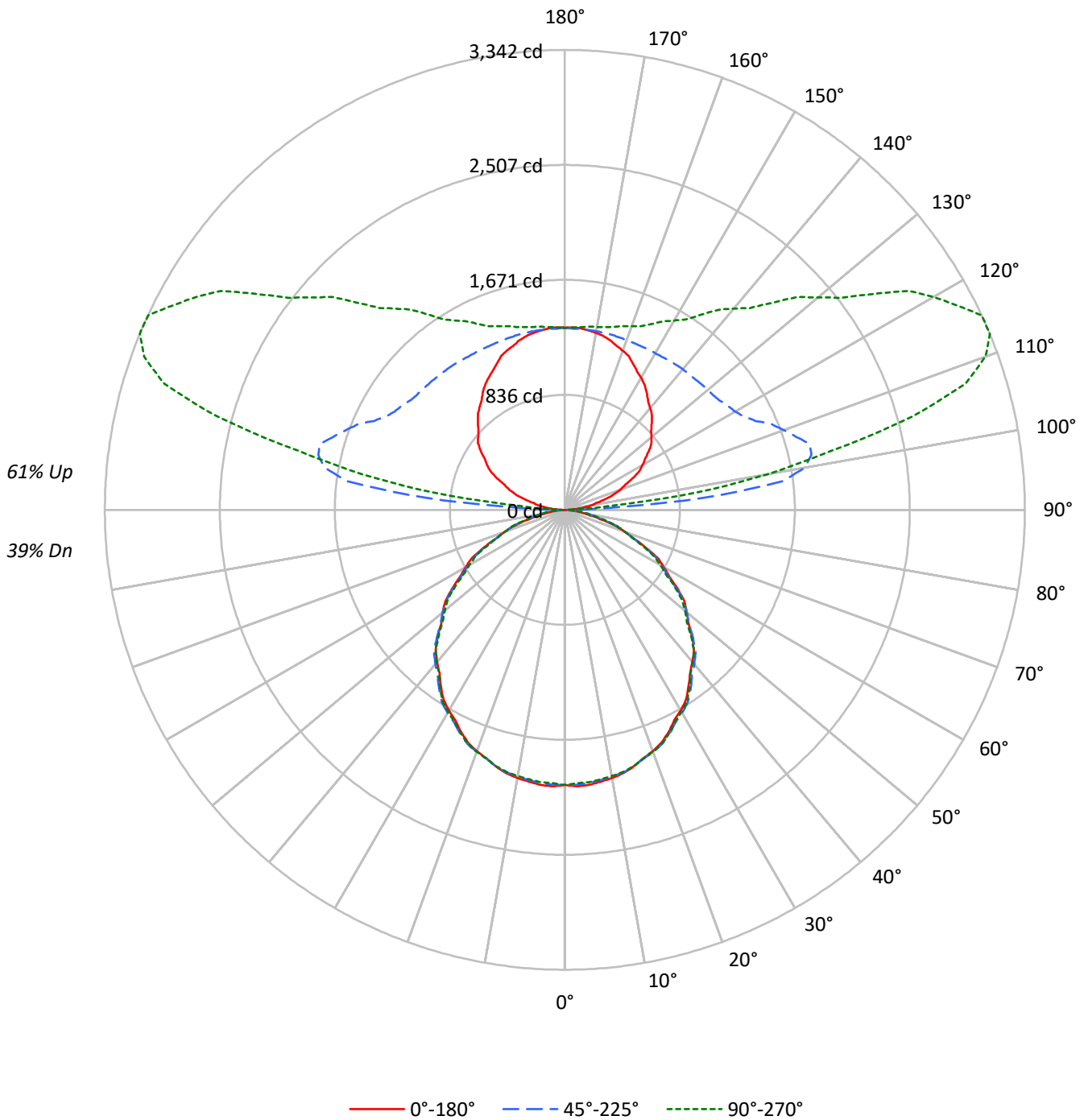
Lumens per Lamp: N/A
Luminaire Lumens: 13988.3 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39				
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33				
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28				
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23				
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20				
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17				
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13				
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12				
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12297	12297	12297
5°	12391	12310	12265
10°	12360	12302	12268
15°	12295	12295	12283
20°	12215	12251	12251
25°	12099	12187	12149
30°	11952	12096	12043
35°	11774	11955	11871
40°	11579	11743	11624
45°	11369	11449	11272
50°	11071	11071	10894
55°	10720	10581	10422
60°	10203	9998	9838
65°	9430	9242	9160
70°	8256	8323	8291
75°	6642	7348	7391
80°	4722	6231	6294
85°	2872	5222	5222



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.2	1.4
10°-20°	543.0	3.9
20°-30°	822.3	5.9
30°-40°	985.8	7.0
40°-50°	1005.2	7.2
50°-60°	877.5	6.3
60°-70°	628.2	4.5
70°-80°	323.6	2.3
80°-90°	84.6	0.6
90°-100°	614.8	4.4
100°-110°	1662.2	11.9
110°-120°	1747.6	12.5
120°-130°	1419.5	10.1
130°-140°	1113.5	8.0
140°-150°	854.6	6.1
150°-160°	614.6	4.4
160°-170°	375.5	2.7
170°-180°	126.6	0.9
0°-30°	1554.5	11.1
0°-40°	2540.3	18.2
0°-60°	4423.0	31.6
0°-90°	5459.3	39.0
90°-120°	4024.6	28.8
90°-150°	7412.3	53.0
90°-180°	8529.0	61.0
0°-180°	13988.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	2007	1987	1994	1988	1986	190
15°	1931	1915	1931	1931	1929	544
25°	1783	1770	1796	1790	1790	820
35°	1568	1564	1592	1581	1581	981
45°	1307	1303	1316	1300	1296	1006
55°	1000	987	987	972	972	891
65°	648	634	635	629	629	641
75°	280	292	309	311	311	302
85°	41	62	74	76	74	55
90°	3	8	18	20	18	8
95°	95	335	1022	529	315	100
105°	309	478	1844	2720	2609	325
115°	544	665	1529	2960	3342	537
125°	745	853	1378	2326	2733	664
135°	893	999	1341	1878	2126	690
145°	1038	1116	1323	1608	1730	649
155°	1172	1218	1312	1442	1490	541
165°	1276	1288	1317	1369	1376	359
175°	1324	1323	1319	1336	1333	126
180°	1323	1323	1323	1323	1323	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1999.3	1999.3	1999.3	1999.3	1999.3
2.5°	2011.2	1993.8	1999.3	1994.7	1987.5
5°	2006.8	1986.8	1993.8	1988.2	1986.4
7.5°	1992.3	1972.4	1981.6	1977.8	1976.0
10°	1979.0	1959.1	1969.7	1966.0	1964.2
12.5°	1961.2	1942.7	1954.9	1951.2	1950.8
15°	1930.8	1914.6	1930.8	1930.8	1929.0
17.5°	1892.7	1877.9	1895.3	1896.4	1895.3
20°	1866.1	1849.8	1871.6	1869.8	1871.6
22.5°	1833.5	1820.1	1843.5	1838.7	1840.5
25°	1782.7	1770.1	1795.7	1790.2	1790.2
27.5°	1722.8	1713.7	1741.7	1735.7	1735.7
30°	1682.8	1673.7	1703.1	1695.7	1695.7
32.5°	1638.4	1632.2	1660.2	1651.3	1651.3
35°	1568.0	1564.4	1592.1	1581.0	1581.0
37.5°	1495.4	1492.2	1517.3	1503.9	1499.5
40°	1442.1	1440.3	1462.5	1447.7	1447.7
42.5°	1388.8	1387.0	1406.2	1388.4	1388.4
45°	1307.0	1303.4	1316.2	1299.5	1295.9
47.5°	1217.7	1214.1	1222.2	1204.0	1202.2
50°	1157.0	1153.4	1157.0	1140.3	1138.5
52.5°	1094.8	1088.3	1088.9	1072.2	1071.9
55°	999.7	987.0	986.7	971.9	971.9
57.5°	899.0	882.3	883.8	871.2	869.3
60°	829.4	811.3	812.7	801.5	799.7
62.5°	761.2	740.2	744.6	732.0	731.6
65°	647.9	633.5	635.0	629.4	629.4
67.5°	539.1	525.7	535.4	530.9	530.6
70°	459.1	450.1	462.8	462.8	461.0
72.5°	385.1	384.7	400.6	400.6	401.7
75°	279.5	292.2	309.2	311.0	311.0
77.5°	186.6	209.1	227.7	228.4	228.1
80°	133.3	158.6	175.9	179.5	177.7
82.5°	90.3	117.1	131.4	135.1	133.3
85°	40.7	62.4	74.0	75.9	74.0
87.5°	12.4	26.6	33.3	33.5	30.4
90°	2.8	8.4	18.5	19.9	18.5
92.5°	40.4	147.4	290.8	126.2	91.4
95°	95.4	334.9	1022.4	529.1	314.7
97.5°	153.2	384.1	1593.7	1318.9	968.6
100°	196.5	404.0	1771.4	1847.4	1493.7
102.5°	236.4	431.6	1834.1	2248.1	1983.6
105°	309.0	477.5	1844.0	2720.1	2608.7
107.5°	376.2	529.9	1763.4	3014.5	3051.5
110°	428.6	567.8	1691.7	3093.6	3250.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	475.3	605.6	1625.6	3077.8	3342.0
115°	544.0	665.1	1529.3	2960.5	3342.0
117.5°	611.2	724.8	1465.8	2781.4	3213.9
120°	652.2	763.6	1428.2	2652.9	3094.3
122.5°	690.9	800.1	1405.4	2515.1	2959.8
125°	744.7	853.3	1378.4	2326.0	2732.6
127.5°	794.3	900.9	1362.4	2171.7	2529.2
130°	821.6	931.6	1355.6	2076.4	2399.4
132.5°	850.1	959.0	1348.8	1990.3	2287.7
135°	892.8	998.6	1341.4	1878.1	2126.0
137.5°	935.8	1035.8	1335.1	1787.1	1989.0
140°	965.4	1058.7	1332.8	1728.5	1908.1
142.5°	993.9	1081.6	1328.3	1675.6	1832.9
145°	1038.1	1116.0	1322.9	1607.6	1730.1
147.5°	1078.2	1147.3	1316.6	1546.0	1640.1
150°	1107.8	1169.1	1314.3	1512.5	1587.7
152.5°	1135.2	1188.6	1313.2	1481.5	1543.3
155°	1171.9	1217.9	1311.5	1442.1	1489.5
157.5°	1210.1	1242.1	1311.7	1414.7	1445.9
160°	1231.7	1258.2	1312.9	1397.4	1419.7
162.5°	1248.8	1270.8	1314.0	1383.6	1400.3
165°	1275.9	1288.4	1317.2	1368.6	1375.5
167.5°	1294.4	1303.0	1317.4	1355.7	1359.0
170°	1305.8	1309.9	1318.6	1349.9	1349.9
172.5°	1314.9	1315.7	1318.6	1343.1	1341.9
175°	1324.3	1322.9	1318.6	1335.6	1332.8
177.5°	1327.4	1324.1	1318.3	1329.6	1326.3
180°	1322.9	1322.9	1322.9	1322.9	1322.9

(END OF REPORT)