

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: P563135

Luminaire Tested: **SQ4-PC3-150U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563135
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-835-1D-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: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

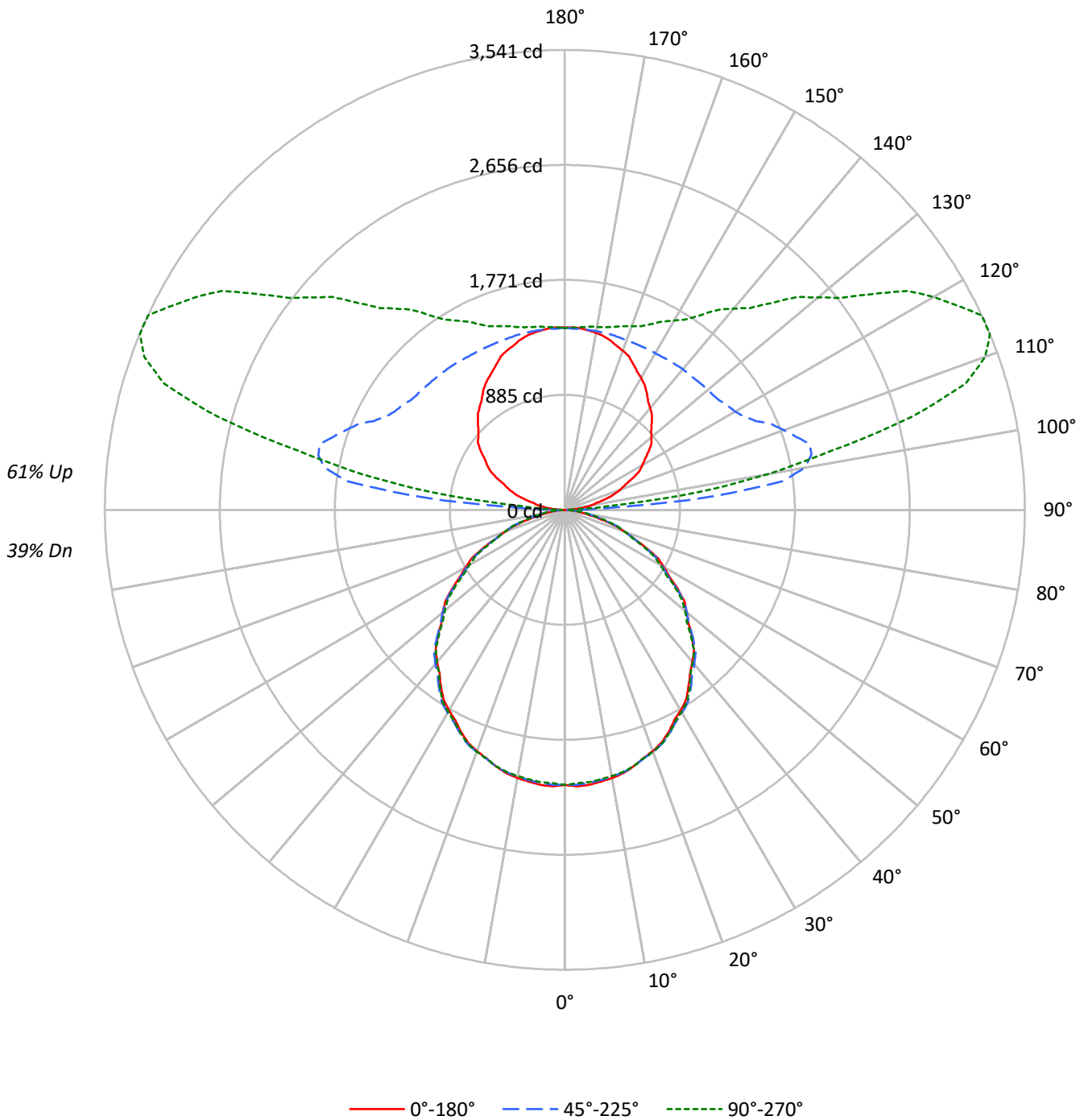
Lumens per Lamp: N/A
Luminaire Lumens: 14819.8 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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°	13029	13029	13029
5°	13127	13042	12994
10°	13095	13034	12997
15°	13026	13026	13014
20°	12941	12979	12979
25°	12818	12912	12872
30°	12662	12815	12759
35°	12474	12665	12576
40°	12267	12441	12315
45°	12045	12130	11942
50°	11730	11730	11542
55°	11357	11210	11042
60°	10809	10592	10423
65°	9991	9791	9705
70°	8747	8817	8783
75°	7039	7783	7831
80°	5001	6599	6670
85°	3042	5540	5540



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.5	1.4
10°-20°	575.3	3.9
20°-30°	871.2	5.9
30°-40°	1044.4	7.0
40°-50°	1065.0	7.2
50°-60°	929.6	6.3
60°-70°	665.5	4.5
70°-80°	342.8	2.3
80°-90°	89.6	0.6
90°-100°	651.3	4.4
100°-110°	1761.1	11.9
110°-120°	1851.5	12.5
120°-130°	1503.9	10.1
130°-140°	1179.7	8.0
140°-150°	905.4	6.1
150°-160°	651.2	4.4
160°-170°	397.8	2.7
170°-180°	134.1	0.9
0°-30°	1646.9	11.1
0°-40°	2691.3	18.2
0°-60°	4685.9	31.6
0°-90°	5783.9	39.0
90°-120°	4263.9	28.8
90°-150°	7852.9	53.0
90°-180°	9036.0	61.0
0°-180°	14819.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2118	2118	2118	2118	2118	
5°	2126	2105	2112	2106	2104	202
15°	2046	2028	2046	2046	2044	577
25°	1889	1875	1902	1897	1897	869
35°	1661	1657	1687	1675	1675	1039
45°	1385	1381	1394	1377	1373	1066
55°	1059	1046	1045	1030	1030	944
65°	686	671	673	667	667	679
75°	296	310	328	330	330	320
85°	43	66	78	80	78	59
90°	3	9	20	21	20	8
95°	101	355	1083	561	333	106
105°	327	506	1954	2882	2764	345
115°	576	705	1620	3136	3541	569
125°	789	904	1460	2464	2895	703
135°	946	1058	1421	1990	2252	731
145°	1100	1182	1402	1703	1833	688
155°	1242	1290	1389	1528	1578	573
165°	1352	1365	1396	1450	1457	381
175°	1403	1402	1397	1415	1412	133
180°	1402	1402	1402	1402	1402	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2118.2	2118.2	2118.2	2118.2	2118.2
2.5°	2130.7	2112.3	2118.2	2113.3	2105.6
5°	2126.0	2104.9	2112.3	2106.4	2104.5
7.5°	2110.7	2089.6	2099.4	2095.4	2093.5
10°	2096.6	2075.5	2086.8	2082.8	2080.9
12.5°	2077.8	2058.2	2071.1	2067.2	2066.8
15°	2045.6	2028.4	2045.6	2045.6	2043.7
17.5°	2005.2	1989.5	2008.0	2009.1	2008.0
20°	1977.0	1959.7	1982.9	1980.9	1982.9
22.5°	1942.5	1928.3	1953.1	1948.0	1949.9
25°	1888.7	1875.3	1902.5	1896.6	1896.6
27.5°	1825.2	1815.6	1845.2	1838.9	1838.9
30°	1782.8	1773.2	1804.4	1796.5	1796.5
32.5°	1735.7	1729.2	1758.9	1749.5	1749.5
35°	1661.2	1657.4	1686.7	1674.9	1674.9
37.5°	1584.3	1580.9	1607.5	1593.2	1588.6
40°	1527.8	1525.9	1549.4	1533.7	1533.7
42.5°	1471.4	1469.4	1489.8	1471.0	1471.0
45°	1384.7	1380.8	1394.5	1376.7	1372.9
47.5°	1290.1	1286.3	1294.8	1275.6	1273.7
50°	1225.8	1222.0	1225.8	1208.1	1206.2
52.5°	1159.9	1153.0	1153.6	1136.0	1135.6
55°	1059.1	1045.7	1045.4	1029.7	1029.7
57.5°	952.4	934.8	936.3	922.9	921.0
60°	878.7	859.5	861.0	849.2	847.3
62.5°	806.5	784.2	788.8	775.5	775.1
65°	686.5	671.1	672.7	666.8	666.8
67.5°	571.1	556.9	567.2	562.5	562.1
70°	486.4	476.8	490.3	490.3	488.4
72.5°	407.9	407.6	424.4	424.4	425.6
75°	296.2	309.6	327.5	329.5	329.5
77.5°	197.7	221.5	241.2	242.0	241.6
80°	141.2	168.1	186.3	190.2	188.3
82.5°	95.7	124.1	139.3	143.1	141.2
85°	43.1	66.2	78.5	80.4	78.5
87.5°	13.2	28.1	35.3	35.5	32.2
90°	3.0	8.9	19.6	21.1	19.6
92.5°	42.8	156.1	308.1	133.7	96.9
95°	101.1	354.8	1083.2	560.6	333.4
97.5°	162.3	406.9	1688.4	1397.3	1026.2
100°	208.2	428.0	1876.7	1957.2	1582.5
102.5°	250.4	457.2	1943.1	2381.7	2101.5
105°	327.4	505.9	1953.6	2881.8	2763.8
107.5°	398.6	561.4	1868.3	3193.7	3232.9
110°	454.1	601.6	1792.2	3277.5	3444.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	503.6	641.6	1722.2	3260.7	3540.7
115°	576.3	704.6	1620.2	3136.5	3540.7
117.5°	647.5	767.9	1553.0	2946.8	3404.9
120°	690.9	808.9	1513.1	2810.6	3278.2
122.5°	732.0	847.6	1489.0	2664.6	3135.8
125°	789.0	904.1	1460.3	2464.3	2895.0
127.5°	841.5	954.5	1443.4	2300.8	2679.6
130°	870.5	987.0	1436.2	2199.8	2542.0
132.5°	900.6	1016.0	1428.9	2108.6	2423.7
135°	945.9	1058.0	1421.1	1989.8	2252.3
137.5°	991.5	1097.4	1414.5	1893.3	2107.2
140°	1022.8	1121.7	1412.1	1831.2	2021.5
142.5°	1053.0	1145.9	1407.2	1775.2	1941.9
145°	1099.8	1182.4	1401.5	1703.1	1833.0
147.5°	1142.3	1215.5	1394.9	1637.9	1737.6
150°	1173.7	1238.6	1392.4	1602.4	1682.1
152.5°	1202.7	1259.3	1391.2	1569.5	1635.0
155°	1241.6	1290.3	1389.4	1527.8	1578.0
157.5°	1282.0	1315.9	1389.7	1498.8	1531.8
160°	1304.9	1333.0	1390.9	1480.5	1504.1
162.5°	1323.0	1346.3	1392.1	1465.9	1483.6
165°	1351.7	1365.0	1395.5	1449.9	1457.3
167.5°	1371.3	1380.5	1395.8	1436.3	1439.8
170°	1383.4	1387.8	1397.0	1430.2	1430.2
172.5°	1393.0	1393.9	1397.0	1422.9	1421.7
175°	1403.0	1401.5	1397.0	1415.0	1412.1
177.5°	1406.3	1402.8	1396.7	1408.7	1405.1
180°	1401.5	1401.5	1401.5	1401.5	1401.5

(END OF REPORT)