

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: P563020

Luminaire Tested: **SQ4-PC3-125U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563020
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-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

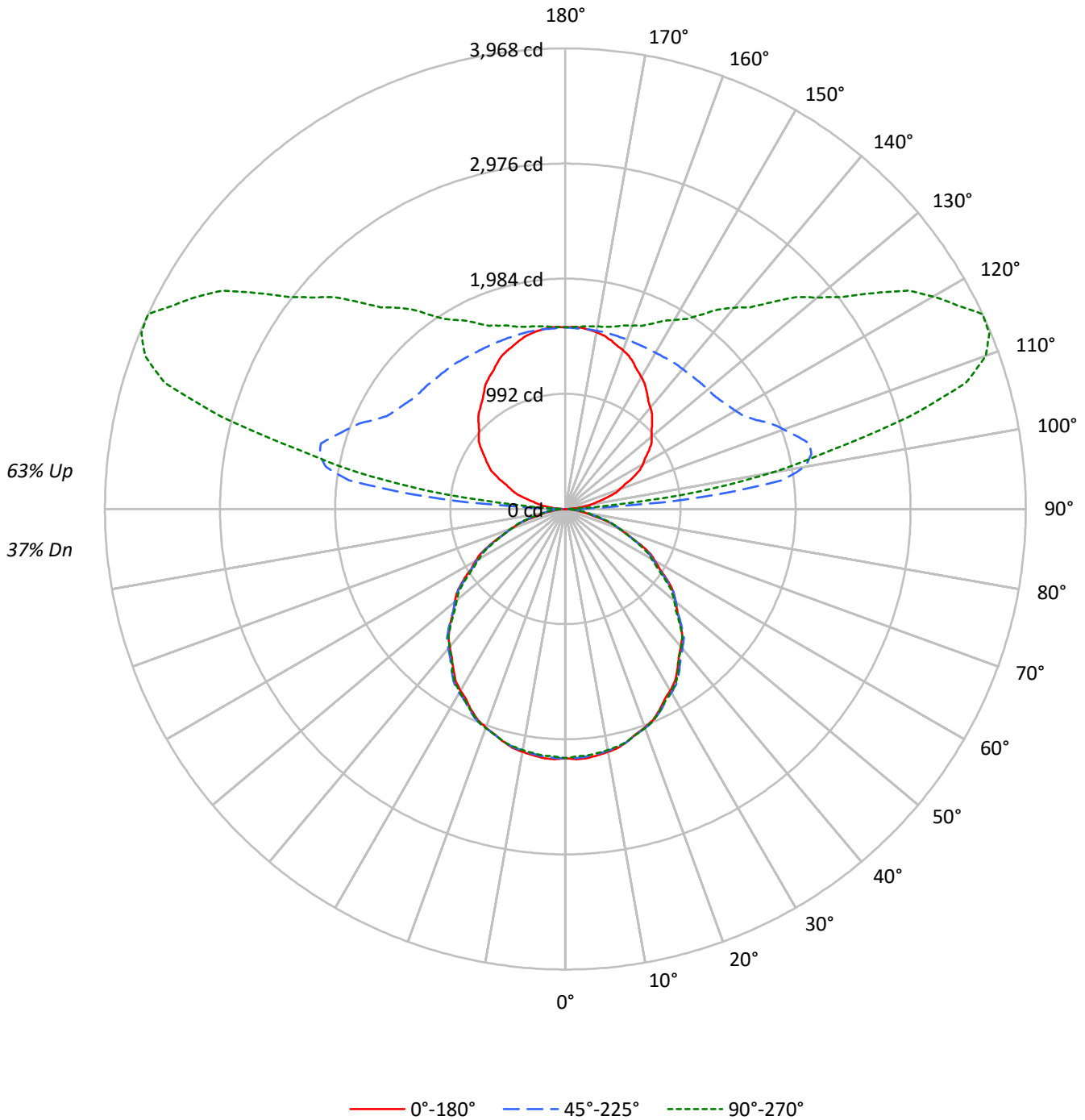
Lumens per Lamp: N/A
Luminaire Lumens: 15962.4 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 116
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37	37	37	37	
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31	31	31	31	
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26	26	26	26	
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22	22	22	22	
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19	19	19	19	
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16	16	16	16	
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14	14	14	14	
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13	13	13	13	
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11	11	11	11	
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10	10	10	10	
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9	9	9	9	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9877
10°	9955	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9784
30°	9625	9742	9699
35°	9482	9628	9561
40°	9326	9458	9362
45°	9156	9221	9079
50°	8917	8917	8774
55°	8634	8522	8394
60°	8217	8052	7923
65°	7595	7443	7378
70°	6649	6703	6676
75°	5351	5917	5953
80°	3802	5018	5069
85°	2313	4208	4208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.3
10°-20°	583.1	3.7
20°-30°	883.0	5.5
30°-40°	1058.6	6.6
40°-50°	1079.4	6.8
50°-60°	942.3	5.9
60°-70°	674.6	4.2
70°-80°	347.5	2.2
80°-90°	91.5	0.6
90°-100°	731.8	4.6
100°-110°	1971.4	12.4
110°-120°	2068.9	13.0
120°-130°	1678.9	10.5
130°-140°	1316.7	8.2
140°-150°	1010.9	6.3
150°-160°	726.8	4.6
160°-170°	444.1	2.8
170°-180°	149.7	0.9
0°-30°	1669.3	10.5
0°-40°	2727.9	17.1
0°-60°	4749.6	29.8
0°-90°	5863.2	36.7
90°-120°	4772.2	29.9
90°-150°	8778.6	55.0
90°-180°	10099.0	63.3
0°-180°	15962.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2147	2147	2147	2147	2147	
5°	2155	2134	2141	2135	2133	205
15°	2073	2056	2073	2073	2071	585
25°	1914	1901	1928	1922	1922	881
35°	1684	1680	1710	1698	1698	1053
45°	1404	1400	1413	1395	1392	1080
55°	1074	1060	1060	1044	1044	957
65°	696	680	682	676	676	688
75°	300	314	332	334	334	324
85°	44	67	80	82	80	60
90°	4	12	24	26	26	10
95°	112	398	1200	614	424	117
105°	365	567	2180	3262	3061	383
115°	644	788	1816	3508	3968	633
125°	879	1009	1630	2755	3242	785
135°	1058	1181	1584	2223	2517	817
145°	1224	1319	1564	1900	2041	767
155°	1389	1440	1550	1705	1760	639
165°	1507	1524	1556	1618	1626	425
175°	1566	1564	1558	1580	1576	149
180°	1564	1564	1564	1564	1564	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2147.0	2147.0	2147.0	2147.0	2147.0
2.5°	2159.7	2141.0	2147.0	2142.0	2134.2
5°	2154.9	2133.5	2141.0	2135.0	2133.0
7.5°	2139.4	2118.0	2127.9	2123.9	2121.9
10°	2125.1	2103.7	2115.2	2111.1	2109.2
12.5°	2106.0	2086.2	2099.3	2095.3	2094.9
15°	2073.4	2055.9	2073.4	2073.4	2071.4
17.5°	2032.5	2016.5	2035.2	2036.4	2035.2
20°	2003.8	1986.3	2009.8	2007.9	2009.8
22.5°	1968.8	1954.5	1979.6	1974.5	1976.4
25°	1914.4	1900.8	1928.3	1922.3	1922.3
27.5°	1850.0	1840.2	1870.2	1863.9	1863.9
30°	1807.0	1797.3	1828.9	1820.9	1820.9
32.5°	1759.3	1752.7	1782.8	1773.2	1773.2
35°	1683.8	1679.9	1709.6	1697.7	1697.7
37.5°	1605.8	1602.4	1629.3	1614.9	1610.2
40°	1548.6	1546.7	1570.5	1554.6	1554.6
42.5°	1491.3	1489.4	1510.0	1490.9	1490.9
45°	1403.5	1399.6	1413.4	1395.4	1391.6
47.5°	1307.7	1303.8	1312.4	1292.9	1291.0
50°	1242.5	1238.6	1242.5	1224.5	1222.6
52.5°	1175.7	1168.7	1169.3	1151.4	1151.0
55°	1073.5	1059.9	1059.6	1043.7	1043.7
57.5°	965.3	947.5	949.0	935.5	933.5
60°	890.6	871.2	872.7	860.7	858.8
62.5°	817.4	794.9	799.5	786.0	785.6
65°	695.8	680.2	681.9	675.9	675.9
67.5°	578.9	564.5	574.9	570.1	569.7
70°	493.0	483.3	497.0	496.9	495.0
72.5°	413.5	413.1	430.2	430.2	431.4
75°	300.2	313.8	332.0	334.0	334.0
77.5°	200.4	224.5	244.5	245.3	244.9
80°	143.1	170.3	188.9	192.8	190.8
82.5°	97.0	125.8	141.1	145.1	143.1
85°	43.7	67.1	79.5	81.5	79.5
87.5°	13.5	29.1	36.6	36.9	33.8
90°	4.0	11.8	23.9	25.9	25.9
92.5°	48.6	171.8	339.6	163.5	113.6
95°	111.6	398.0	1199.7	613.5	424.5
97.5°	178.2	455.6	1881.7	1572.0	1185.4
100°	229.2	478.6	2098.5	2195.6	1821.5
102.5°	278.6	510.9	2170.3	2662.7	2355.6
105°	364.7	567.4	2180.2	3261.8	3061.1
107.5°	446.0	626.8	2087.4	3569.7	3621.5
110°	500.2	671.7	2002.9	3665.2	3854.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	557.6	716.6	1921.5	3644.1	3954.7
115°	643.7	787.9	1815.5	3508.0	3967.9
117.5°	722.2	857.5	1733.4	3290.7	3802.8
120°	773.2	903.8	1692.0	3134.8	3660.9
122.5°	817.9	946.9	1661.7	2975.4	3499.9
125°	878.9	1009.4	1630.2	2755.3	3242.4
127.5°	937.5	1066.1	1610.3	2561.2	2996.1
130°	972.5	1101.1	1602.3	2450.0	2831.9
132.5°	1007.6	1134.7	1594.3	2352.0	2702.8
135°	1058.2	1181.0	1584.4	2222.8	2517.0
137.5°	1106.5	1224.2	1579.2	2113.2	2354.8
140°	1139.9	1253.0	1574.4	2045.7	2263.9
142.5°	1175.0	1280.2	1571.2	1982.7	2166.7
145°	1223.6	1319.1	1564.4	1900.4	2040.7
147.5°	1276.2	1359.3	1557.6	1831.2	1941.5
150°	1311.3	1383.4	1554.5	1787.7	1879.3
152.5°	1343.2	1406.0	1552.9	1752.3	1826.7
155°	1389.0	1439.7	1550.5	1705.2	1759.7
157.5°	1429.3	1468.7	1550.9	1672.1	1708.7
160°	1454.8	1487.9	1552.5	1652.7	1680.0
162.5°	1477.1	1504.0	1554.1	1636.6	1656.1
165°	1506.6	1524.2	1556.5	1618.4	1626.2
167.5°	1530.5	1540.7	1558.4	1604.4	1607.5
170°	1546.5	1550.4	1558.4	1596.3	1596.3
172.5°	1556.1	1556.8	1560.0	1588.3	1588.3
175°	1566.4	1564.5	1558.4	1580.3	1576.4
177.5°	1570.8	1567.7	1559.6	1572.3	1569.2
180°	1564.4	1564.4	1564.4	1564.4	1564.4

(END OF REPORT)