

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: P563692

Luminaire Tested: **SQ4-PP3-125U-075D-840-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563692
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

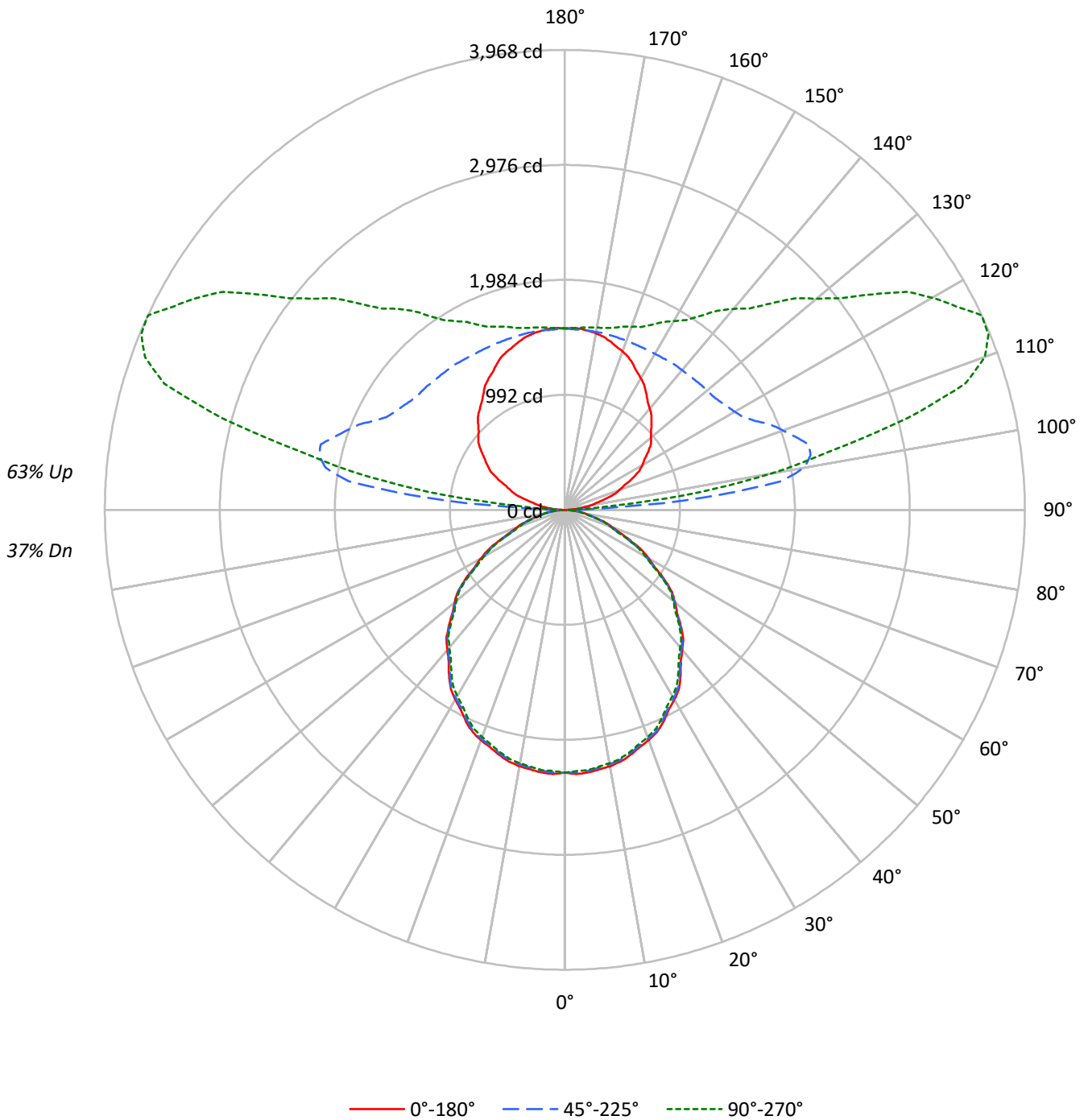
Lumens per Lamp: N/A
Luminaire Lumens: 15906.9 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10461	10461	10461
5°	10538	10473	10437
10°	10520	10445	10399
15°	10450	10394	10336
20°	10381	10322	10244
25°	10258	10187	10086
30°	10068	10015	9888
35°	9805	9738	9614
40°	9491	9431	9323
45°	9232	9167	9076
50°	8901	8843	8758
55°	8440	8328	8264
60°	7683	7463	7426
65°	6769	6486	6465
70°	5844	5603	5603
75°	5030	4959	4889
80°	4434	4487	4383
85°	3472	3784	3784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	1.3
10°-20°	612.3	3.8
20°-30°	917.1	5.8
30°-40°	1075.7	6.8
40°-50°	1079.1	6.8
50°-60°	920.5	5.8
60°-70°	600.4	3.8
70°-80°	301.2	1.9
80°-90°	87.0	0.5
90°-100°	731.8	4.6
100°-110°	1971.4	12.4
110°-120°	2068.9	13.0
120°-130°	1678.9	10.6
130°-140°	1316.7	8.3
140°-150°	1010.9	6.4
150°-160°	726.8	4.6
160°-170°	444.1	2.8
170°-180°	149.7	0.9
0°-30°	1743.8	11.0
0°-40°	2819.5	17.7
0°-60°	4819.1	30.3
0°-90°	5807.7	36.5
90°-120°	4772.2	30.0
90°-150°	8778.6	55.2
90°-180°	10099.0	63.5
0°-180°	15906.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2268	2268	2268	2268	2268	
5°	2276	2254	2262	2254	2254	216
15°	2188	2167	2176	2168	2164	617
25°	2015	1992	2001	1983	1982	927
35°	1741	1724	1729	1709	1707	1088
45°	1415	1405	1405	1391	1391	1090
55°	1049	1046	1036	1030	1028	933
65°	620	608	594	590	592	619
75°	282	282	278	276	274	306
85°	66	71	72	72	72	77
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°	2267.7	2267.7	2267.7	2267.7	2267.7
2.5°	2282.0	2263.3	2267.7	2264.3	2255.0
5°	2275.6	2254.3	2261.7	2253.8	2253.8
7.5°	2260.1	2236.8	2244.2	2236.3	2235.9
10°	2245.8	2222.5	2229.9	2221.9	2220.0
12.5°	2225.2	2201.8	2210.8	2201.3	2200.9
15°	2188.2	2166.8	2176.3	2168.2	2164.3
17.5°	2146.5	2123.1	2134.5	2123.4	2121.8
20°	2114.7	2091.3	2102.7	2086.8	2086.8
22.5°	2076.5	2053.2	2066.2	2045.5	2045.5
25°	2015.3	1992.0	2001.4	1983.4	1981.5
27.5°	1942.5	1919.6	1929.4	1909.1	1908.8
30°	1890.1	1868.7	1880.1	1858.2	1856.3
32.5°	1832.8	1813.0	1821.3	1799.4	1797.5
35°	1741.0	1723.5	1729.1	1709.2	1707.2
37.5°	1644.4	1626.5	1632.9	1615.8	1615.0
40°	1576.1	1564.4	1566.1	1552.1	1548.2
42.5°	1512.5	1499.2	1500.9	1487.0	1486.2
45°	1415.1	1405.4	1405.1	1391.2	1391.2
47.5°	1311.7	1304.3	1302.2	1290.6	1290.3
50°	1240.2	1234.3	1232.2	1222.2	1220.3
52.5°	1165.4	1162.7	1155.9	1147.5	1147.2
55°	1049.4	1045.5	1035.5	1029.5	1027.5
57.5°	923.4	915.6	904.3	895.6	897.1
60°	832.7	825.0	808.9	804.9	804.9
62.5°	745.3	736.0	719.9	714.4	717.5
65°	620.1	608.4	594.2	590.3	592.3
67.5°	506.4	495.9	480.6	480.5	479.0
70°	433.3	427.4	415.4	415.4	415.4
72.5°	368.1	365.4	356.5	356.5	355.0
75°	282.2	282.2	278.2	276.2	274.3
77.5°	211.5	212.2	210.3	208.2	204.7
80°	166.9	170.8	168.9	166.9	165.0
82.5°	125.6	129.5	129.2	125.6	125.2
85°	65.6	71.4	71.5	71.5	71.5
87.5°	18.3	26.1	30.2	30.7	32.2
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)