

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: P563032

Luminaire Tested: **SQ4-PC3-125U-075D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563032
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-940-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

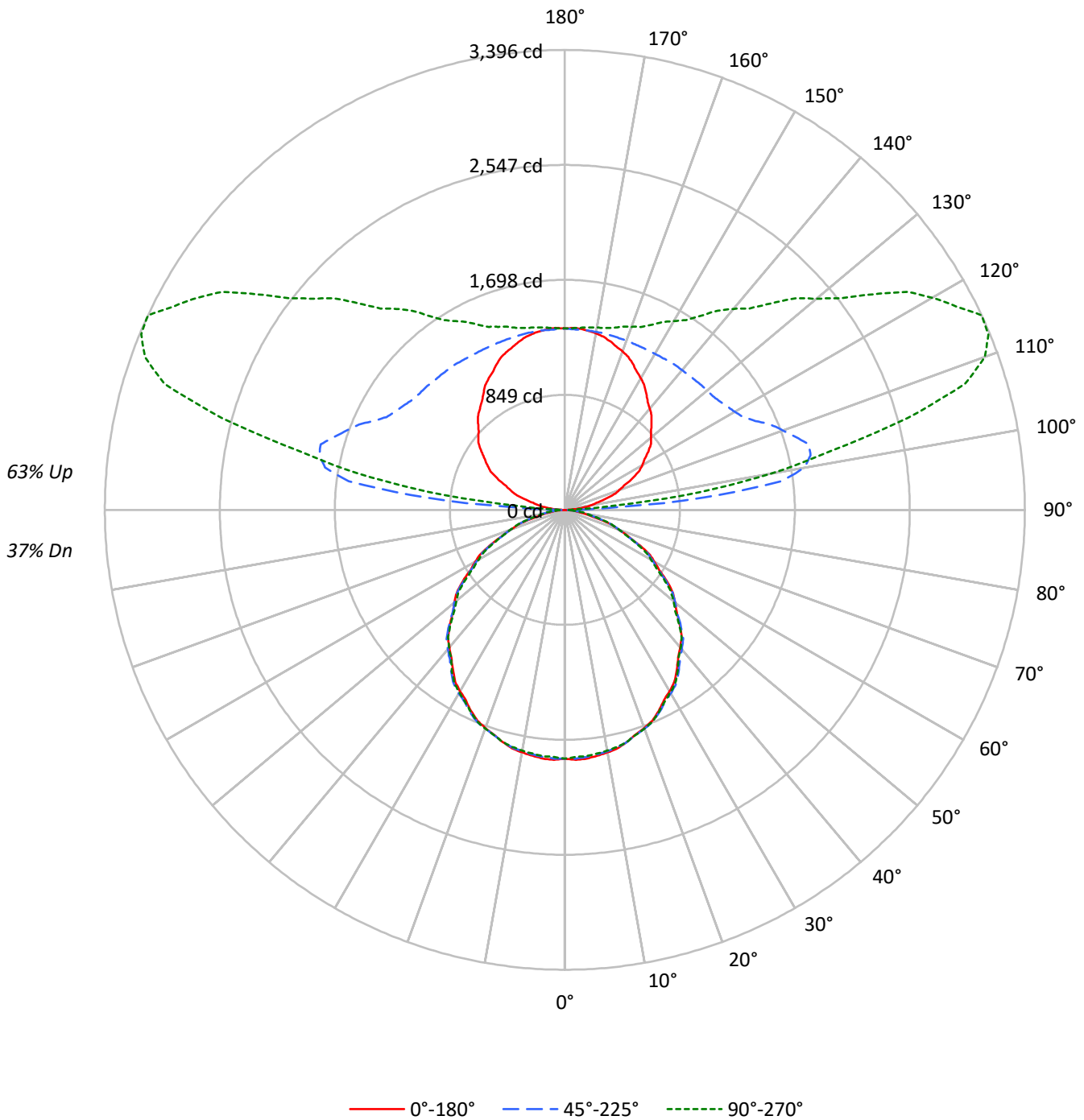
Lumens per Lamp: N/A
Luminaire Lumens: 13661.7 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8477	8477	8477
5°	8540	8485	8454
10°	8520	8480	8456
15°	8475	8475	8467
20°	8419	8444	8444
25°	8340	8401	8375
30°	8238	8338	8302
35°	8116	8240	8183
40°	7982	8094	8012
45°	7837	7892	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6891	6781
65°	6500	6370	6315
70°	5691	5738	5713
75°	4579	5064	5094
80°	3254	4293	4338
85°	1980	3604	3604



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.9	1.3
10°-20°	499.0	3.7
20°-30°	755.7	5.5
30°-40°	906.0	6.6
40°-50°	923.9	6.8
50°-60°	806.4	5.9
60°-70°	577.3	4.2
70°-80°	297.4	2.2
80°-90°	78.3	0.6
90°-100°	626.4	4.6
100°-110°	1687.3	12.4
110°-120°	1770.7	13.0
120°-130°	1436.9	10.5
130°-140°	1126.9	8.2
140°-150°	865.2	6.3
150°-160°	622.1	4.6
160°-170°	380.0	2.8
170°-180°	128.2	0.9
0°-30°	1428.7	10.5
0°-40°	2334.7	17.1
0°-60°	4065.0	29.8
0°-90°	5018.1	36.7
90°-120°	4084.4	29.9
90°-150°	7513.4	55.0
90°-180°	8644.0	63.3
0°-180°	13661.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1838	1838	1838	1838	1838	
5°	1844	1826	1832	1827	1826	175
15°	1775	1760	1775	1774	1773	500
25°	1638	1627	1650	1645	1645	754
35°	1441	1438	1463	1453	1453	901
45°	1201	1198	1210	1194	1191	925
55°	919	907	907	893	893	819
65°	596	582	584	578	578	589
75°	257	269	284	286	286	278
85°	37	57	68	70	68	51
90°	3	10	20	22	22	8
95°	96	341	1027	525	363	100
105°	312	486	1866	2792	2620	328
115°	551	674	1554	3002	3396	542
125°	752	864	1395	2358	2775	672
135°	906	1011	1356	1902	2154	699
145°	1047	1129	1339	1626	1747	657
155°	1189	1232	1327	1459	1506	547
165°	1290	1304	1332	1385	1392	364
175°	1341	1339	1334	1352	1349	127
180°	1339	1339	1339	1339	1339	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1837.5	1837.5	1837.5	1837.5	1837.5
2.5°	1848.4	1832.4	1837.5	1833.3	1826.6
5°	1844.3	1826.0	1832.4	1827.3	1825.6
7.5°	1831.1	1812.8	1821.2	1817.7	1816.1
10°	1818.8	1800.5	1810.3	1806.9	1805.2
12.5°	1802.5	1785.5	1796.7	1793.3	1792.9
15°	1774.6	1759.6	1774.6	1774.5	1772.9
17.5°	1739.5	1725.9	1741.9	1742.9	1741.9
20°	1715.0	1700.0	1720.1	1718.5	1720.1
22.5°	1685.1	1672.8	1694.3	1689.9	1691.5
25°	1638.5	1626.8	1650.4	1645.3	1645.3
27.5°	1583.3	1575.0	1600.7	1595.2	1595.2
30°	1546.6	1538.3	1565.3	1558.5	1558.5
32.5°	1505.7	1500.1	1525.8	1517.7	1517.7
35°	1441.1	1437.8	1463.2	1453.0	1453.0
37.5°	1374.4	1371.4	1394.5	1382.1	1378.1
40°	1325.4	1323.7	1344.1	1330.5	1330.5
42.5°	1276.4	1274.7	1292.4	1276.1	1276.1
45°	1201.2	1197.9	1209.7	1194.3	1191.0
47.5°	1119.2	1115.9	1123.3	1106.6	1104.9
50°	1063.4	1060.1	1063.4	1048.0	1046.4
52.5°	1006.2	1000.2	1000.8	985.4	985.1
55°	918.8	907.1	906.8	893.2	893.2
57.5°	826.2	810.9	812.3	800.6	799.0
60°	762.2	745.6	746.9	736.7	735.0
62.5°	699.6	680.3	684.3	672.7	672.4
65°	595.5	582.2	583.6	578.5	578.5
67.5°	495.4	483.1	492.0	488.0	487.6
70°	421.9	413.6	425.4	425.3	423.6
72.5°	353.9	353.6	368.2	368.2	369.2
75°	256.9	268.6	284.1	285.8	285.8
77.5°	171.5	192.1	209.3	209.9	209.6
80°	122.5	145.8	161.6	165.0	163.3
82.5°	83.0	107.6	120.8	124.2	122.5
85°	37.4	57.4	68.1	69.7	68.1
87.5°	11.6	24.9	31.3	31.6	28.9
90°	3.4	10.1	20.5	22.2	22.2
92.5°	41.6	147.0	290.6	139.9	97.2
95°	95.5	340.7	1026.8	525.1	363.3
97.5°	152.5	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.1	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.7	2619.9
107.5°	381.7	536.5	1786.5	3055.2	3099.5
110°	428.1	574.9	1714.2	3137.0	3298.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	477.2	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.1	733.9	1483.6	2816.4	3254.7
120°	661.8	773.5	1448.1	2683.0	3133.3
122.5°	700.0	810.4	1422.2	2546.5	2995.5
125°	752.2	863.9	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.2	2192.0	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.7
132.5°	862.4	971.1	1364.5	2013.0	2313.2
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.6	1072.4	1347.5	1750.8	1937.6
142.5°	1005.7	1095.7	1344.7	1697.0	1854.4
145°	1047.3	1129.0	1338.9	1626.5	1746.6
147.5°	1092.3	1163.3	1333.1	1567.3	1661.6
150°	1122.3	1184.0	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.4
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.1	1462.4
160°	1245.1	1273.5	1328.7	1414.5	1437.9
162.5°	1264.2	1287.2	1330.1	1400.7	1417.4
165°	1289.5	1304.5	1332.1	1385.1	1391.8
167.5°	1309.9	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.4	1335.2	1359.4	1359.4
175°	1340.6	1339.0	1333.8	1352.5	1349.2
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1338.9	1338.9	1338.9	1338.9	1338.9

(END OF REPORT)