

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: P563055

Luminaire Tested: **SQ4-PC3-125U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563055
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-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

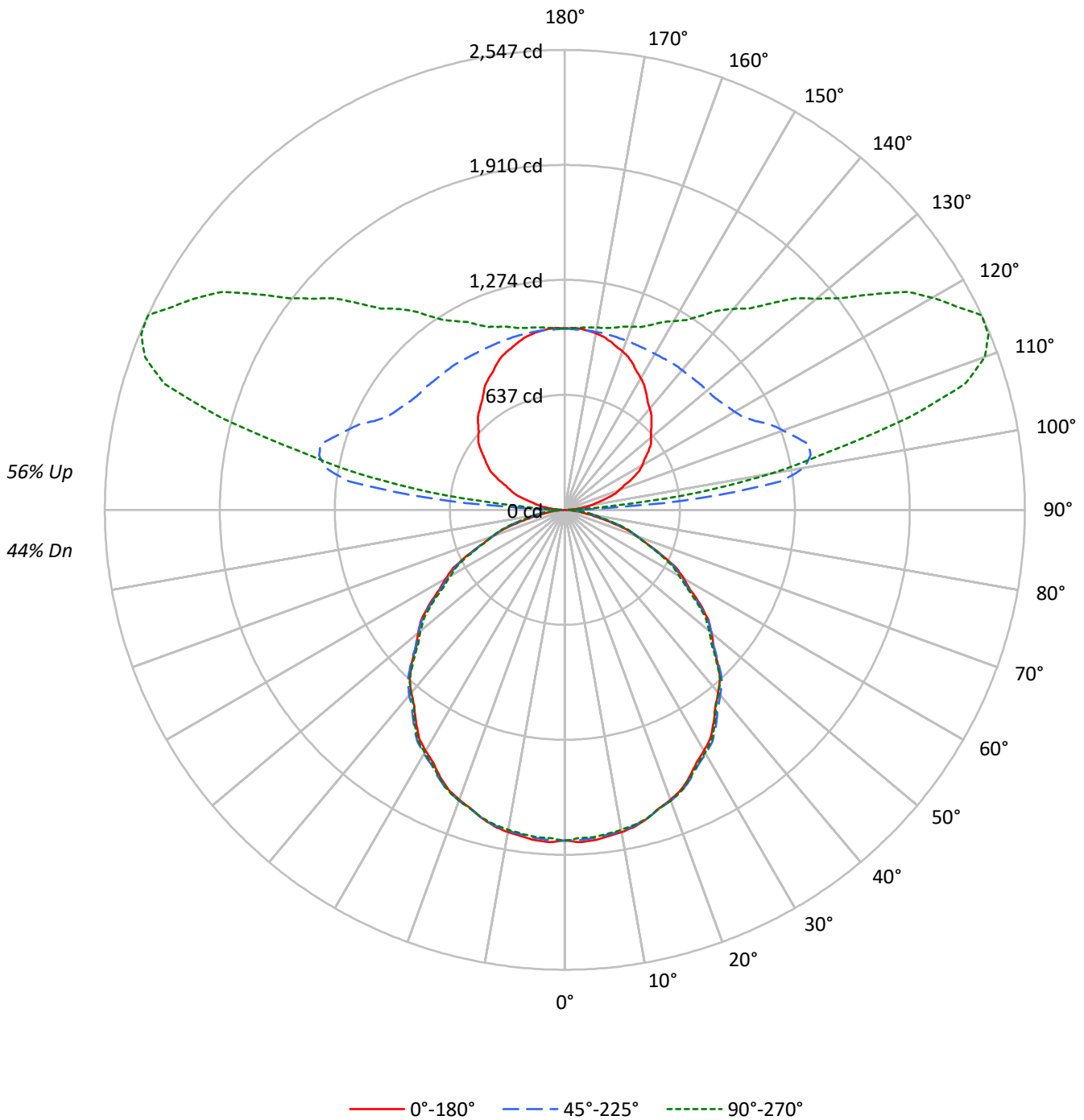
Lumens per Lamp: N/A
Luminaire Lumens: 11482.6 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 102.8
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26
4	73	62	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11274	11233
10°	11320	11267	11235
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11161	11127
30°	10946	11079	11031
35°	10783	10948	10873
40°	10605	10754	10646
45°	10412	10486	10323
50°	10140	10140	9978
55°	9819	9691	9545
60°	9344	9156	9011
65°	8636	8465	8390
70°	7562	7623	7593
75°	6084	6728	6768
80°	4325	5706	5767
85°	2632	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.3	1.5
10°-20°	497.3	4.3
20°-30°	753.1	6.6
30°-40°	902.9	7.9
40°-50°	920.6	8.0
50°-60°	803.7	7.0
60°-70°	575.4	5.0
70°-80°	296.3	2.6
80°-90°	77.3	0.7
90°-100°	469.8	4.1
100°-110°	1265.4	11.0
110°-120°	1328.0	11.6
120°-130°	1077.7	9.4
130°-140°	845.2	7.4
140°-150°	648.9	5.7
150°-160°	466.6	4.1
160°-170°	285.0	2.5
170°-180°	96.1	0.8
0°-30°	1423.7	12.4
0°-40°	2326.6	20.3
0°-60°	4050.9	35.3
0°-90°	4999.9	43.5
90°-120°	3063.3	26.7
90°-150°	5635.0	49.1
90°-180°	6483.0	56.5
0°-180°	11482.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1831	1831	1831	1831	1831	
5°	1838	1820	1826	1821	1819	174
15°	1768	1754	1768	1768	1767	499
25°	1633	1621	1645	1640	1640	751
35°	1436	1433	1458	1448	1448	898
45°	1197	1194	1206	1190	1187	921
55°	916	904	904	890	890	816
65°	593	580	582	576	576	587
75°	256	268	283	285	285	277
85°	37	57	68	70	68	51
90°	3	8	15	17	17	7
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.1	1831.1	1831.1	1831.1	1831.1
2.5°	1842.0	1826.1	1831.1	1826.9	1820.3
5°	1837.9	1819.7	1826.0	1820.9	1819.3
7.5°	1824.7	1806.5	1814.9	1811.4	1809.8
10°	1812.5	1794.2	1804.0	1800.6	1798.9
12.5°	1796.2	1779.3	1790.4	1787.0	1786.7
15°	1768.4	1753.5	1768.4	1768.4	1766.7
17.5°	1733.5	1719.9	1735.8	1736.8	1735.8
20°	1709.1	1694.1	1714.1	1712.5	1714.1
22.5°	1679.2	1667.0	1688.4	1684.0	1685.7
25°	1632.8	1621.2	1644.6	1639.5	1639.5
27.5°	1577.8	1569.5	1595.1	1589.7	1589.7
30°	1541.2	1532.9	1559.9	1553.1	1553.1
32.5°	1500.5	1494.9	1520.5	1512.4	1512.4
35°	1436.1	1432.8	1458.1	1448.0	1448.0
37.5°	1369.6	1366.6	1389.6	1377.3	1373.4
40°	1320.8	1319.1	1339.4	1325.9	1325.9
42.5°	1272.0	1270.3	1287.9	1271.6	1271.6
45°	1197.0	1193.7	1205.5	1190.2	1186.8
47.5°	1115.3	1112.0	1119.4	1102.7	1101.1
50°	1059.7	1056.4	1059.7	1044.4	1042.7
52.5°	1002.7	996.7	997.3	982.0	981.7
55°	915.6	904.0	903.7	890.1	890.1
57.5°	823.3	808.1	809.4	797.9	796.2
60°	759.6	743.0	744.3	734.1	732.5
62.5°	697.2	678.0	681.9	670.4	670.1
65°	593.4	580.2	581.6	576.5	576.5
67.5°	493.7	481.5	490.3	486.3	485.9
70°	420.5	412.2	423.9	423.8	422.2
72.5°	352.7	352.3	366.9	366.9	367.9
75°	256.0	267.6	283.1	284.8	284.8
77.5°	170.9	191.5	208.5	209.2	208.9
80°	122.1	145.3	161.1	164.4	162.8
82.5°	82.7	107.3	120.4	123.7	122.1
85°	37.3	57.2	67.8	69.5	67.8
87.5°	11.4	24.3	30.2	30.4	27.7
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)