

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: P563728

Luminaire Tested: **SQ4-PP3-125U-100D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563728
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-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

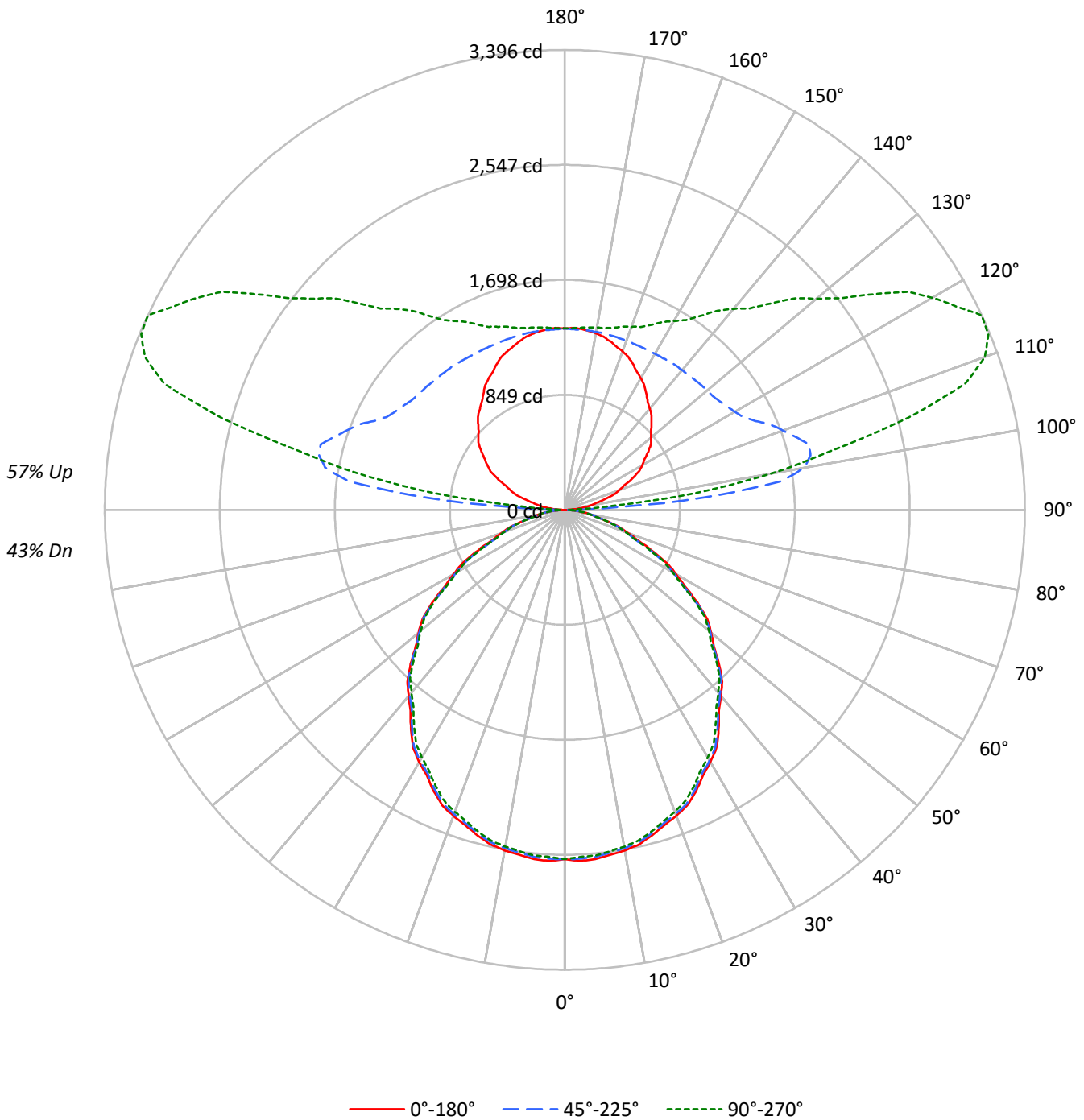
Lumens per Lamp: N/A
Luminaire Lumens: 15247.1 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 133.3
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	43				
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37				
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31				
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26				
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23				
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20				
6	62	50	42	37	57	46	39	34	39	34	30	32	28	25	26	23	20	17				
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15				
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14				
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12				
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11983	11910	11869
10°	11963	11879	11826
15°	11884	11819	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11245
35°	11150	11073	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10121	10057	9959
55°	9597	9470	9398
60°	8737	8487	8446
65°	7698	7377	7352
70°	6645	6372	6372
75°	5720	5639	5559
80°	5045	5103	4984
85°	3949	4308	4308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.8	1.6
10°-20°	696.3	4.6
20°-30°	1042.9	6.8
30°-40°	1223.3	8.0
40°-50°	1227.1	8.0
50°-60°	1046.8	6.9
60°-70°	682.7	4.5
70°-80°	342.5	2.2
80°-90°	97.9	0.6
90°-100°	626.4	4.1
100°-110°	1687.3	11.1
110°-120°	1770.7	11.6
120°-130°	1436.9	9.4
130°-140°	1126.9	7.4
140°-150°	865.2	5.7
150°-160°	622.1	4.1
160°-170°	380.0	2.5
170°-180°	128.2	0.8
0°-30°	1983.0	13.0
0°-40°	3206.4	21.0
0°-60°	5480.3	35.9
0°-90°	6603.5	43.3
90°-120°	4084.4	26.8
90°-150°	7513.4	49.3
90°-180°	8644.0	56.7
0°-180°	15247.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2579	2579	2579	2579	2579	
5°	2588	2564	2572	2563	2563	246
15°	2488	2464	2475	2466	2461	702
25°	2292	2265	2276	2256	2253	1054
35°	1980	1960	1966	1944	1941	1237
45°	1609	1598	1598	1582	1582	1239
55°	1193	1189	1178	1171	1168	1061
65°	705	692	676	671	674	704
75°	321	321	316	314	312	348
85°	75	81	81	81	81	88
90°	3	10	20	22	22	9
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°	2578.8	2578.8	2578.8	2578.8	2578.8
2.5°	2595.1	2573.9	2578.8	2574.9	2564.3
5°	2587.8	2563.5	2572.0	2563.0	2563.0
7.5°	2570.2	2543.7	2552.1	2543.1	2542.6
10°	2553.9	2527.4	2535.9	2526.8	2524.6
12.5°	2530.4	2503.9	2514.2	2503.3	2502.9
15°	2488.4	2464.1	2474.8	2465.7	2461.3
17.5°	2440.9	2414.4	2427.4	2414.7	2412.9
20°	2404.8	2378.3	2391.2	2373.1	2373.1
22.5°	2361.4	2334.9	2349.6	2326.1	2326.1
25°	2291.8	2265.2	2275.9	2255.6	2253.3
27.5°	2209.0	2183.0	2194.1	2171.1	2170.6
30°	2149.4	2125.1	2138.1	2113.2	2111.0
32.5°	2084.3	2061.7	2071.2	2046.3	2044.1
35°	1979.9	1960.0	1966.3	1943.7	1941.4
37.5°	1870.0	1849.7	1856.9	1837.5	1836.6
40°	1792.3	1779.0	1781.0	1765.1	1760.6
42.5°	1720.0	1704.9	1706.8	1691.0	1690.1
45°	1609.2	1598.2	1597.9	1582.1	1582.1
47.5°	1491.7	1483.3	1480.8	1467.7	1467.3
50°	1410.3	1403.7	1401.3	1389.9	1387.7
52.5°	1325.3	1322.2	1314.5	1305.0	1304.5
55°	1193.3	1188.9	1177.5	1170.7	1168.5
57.5°	1050.1	1041.2	1028.4	1018.5	1020.2
60°	947.0	938.2	919.9	915.4	915.4
62.5°	847.5	836.9	818.6	812.4	815.9
65°	705.2	691.9	675.8	671.3	673.5
67.5°	575.9	563.9	546.5	546.5	544.7
70°	492.7	486.1	472.4	472.4	472.4
72.5°	418.6	415.5	405.5	405.4	403.7
75°	320.9	320.9	316.4	314.1	311.9
77.5°	240.5	241.4	239.1	236.8	232.8
80°	189.9	194.3	192.1	189.8	187.6
82.5°	142.8	147.3	146.9	142.8	142.4
85°	74.6	81.2	81.4	81.4	81.4
87.5°	20.6	29.0	33.0	33.4	35.2
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	<i>3384.7</i>
115°	<i>550.9</i>	<i>674.3</i>	<i>1553.9</i>	<i>3002.4</i>	<i>3396.0</i>
117.5°	618.1	733.9	1483.6	2816.4	<i>3254.7</i>
120°	661.8	773.5	1448.1	2683.0	<i>3133.3</i>
122.5°	700.0	810.4	1422.2	2546.5	<i>2995.5</i>
125°	752.2	863.9	1395.2	2358.2	<i>2775.1</i>
127.5°	802.3	912.4	1378.2	2192.0	<i>2564.3</i>
130°	832.4	942.4	1371.3	2096.9	<i>2423.7</i>
132.5°	862.4	971.1	1364.5	2013.0	<i>2313.2</i>
135°	905.7	1010.8	1356.0	1902.4	<i>2154.2</i>
137.5°	947.0	1047.7	1351.6	1808.6	<i>2015.4</i>
140°	975.6	1072.4	1347.5	1750.8	<i>1937.6</i>
142.5°	1005.7	1095.7	1344.7	1697.0	<i>1854.4</i>
145°	1047.3	1129.0	1338.9	1626.5	<i>1746.6</i>
147.5°	1092.3	1163.3	1333.1	1567.3	<i>1661.6</i>
150°	1122.3	1184.0	1330.4	1530.0	<i>1608.4</i>
152.5°	1149.6	1203.3	1329.0	1499.7	<i>1563.4</i>
155°	1188.8	1232.2	1327.0	1459.4	<i>1506.1</i>
157.5°	1223.3	1257.0	1327.3	1431.1	<i>1462.4</i>
160°	1245.1	1273.5	1328.7	1414.5	<i>1437.9</i>
162.5°	1264.2	1287.2	1330.1	1400.7	<i>1417.4</i>
165°	1289.5	1304.5	1332.1	1385.1	<i>1391.8</i>
167.5°	1309.9	1318.6	1333.8	1373.1	<i>1375.8</i>
170°	1323.6	1326.9	1333.8	1366.2	<i>1366.2</i>
172.5°	1331.8	1332.4	1335.2	1359.4	<i>1359.4</i>
175°	1340.6	1339.0	1333.8	1352.5	<i>1349.2</i>
177.5°	1344.4	1341.7	1334.8	1345.7	<i>1343.0</i>
180°	1338.9	1338.9	1338.9	1338.9	<i>1338.9</i>

(END OF REPORT)