

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: P563727

Luminaire Tested: **SQ4-PP3-125U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563727
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-6
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

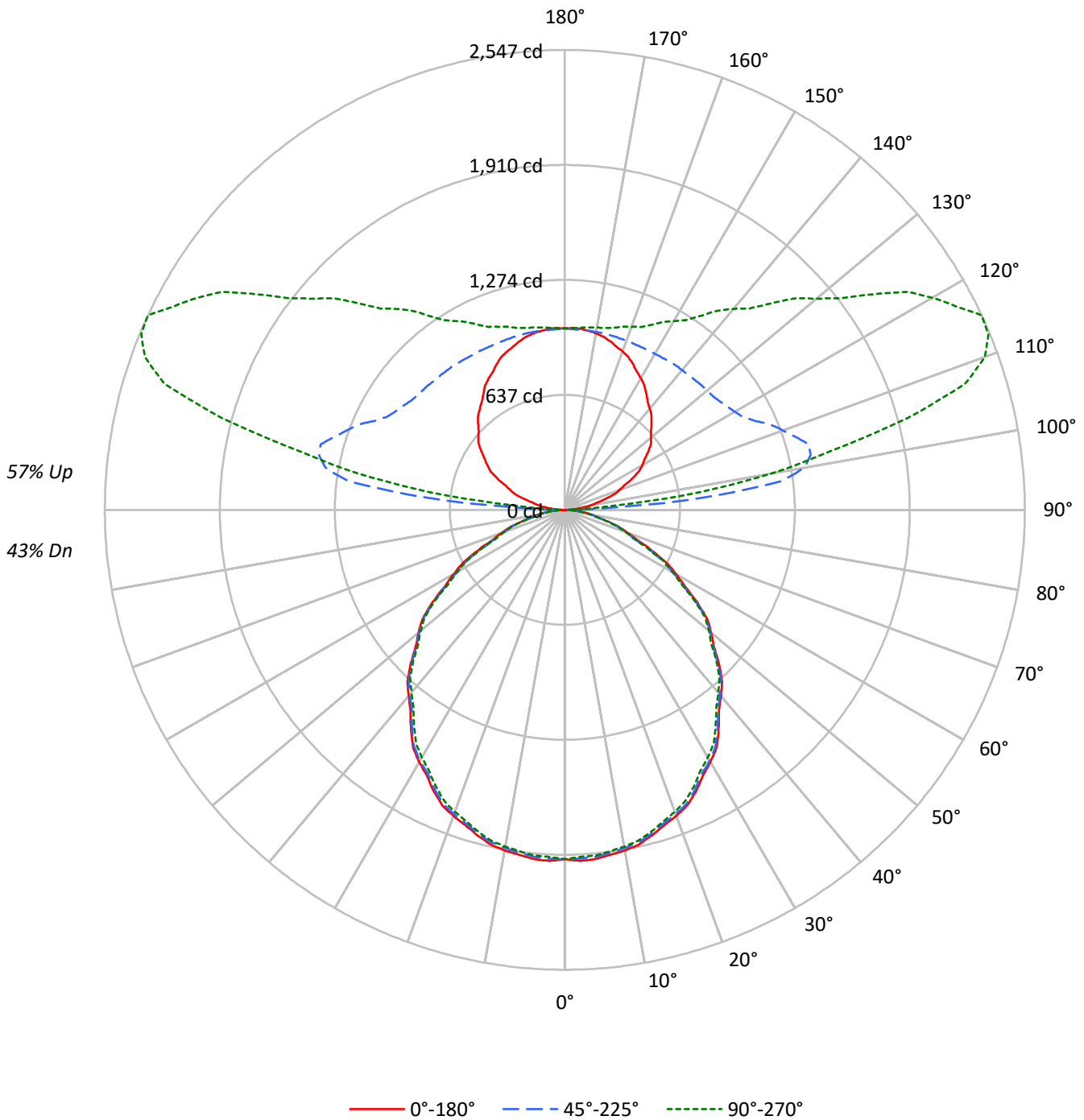
Lumens per Lamp: N/A
Luminaire Lumens: 11435.3 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	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°	11984	11910	11868
10°	11964	11879	11826
15°	11884	11819	11755
20°	11806	11739	11650
25°	11665	11585	11469
30°	11449	11389	11244
35°	11150	11073	10933
40°	10793	10725	10603
45°	10498	10424	10322
50°	10121	10057	9959
55°	9598	9470	9398
60°	8737	8487	8445
65°	7698	7376	7351
70°	6645	6372	6372
75°	5720	5639	5559
80°	5044	5104	4984
85°	3945	4305	4305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	1.6
10°-20°	522.2	4.6
20°-30°	782.2	6.8
30°-40°	917.5	8.0
40°-50°	920.3	8.0
50°-60°	785.1	6.9
60°-70°	512.0	4.5
70°-80°	256.9	2.2
80°-90°	73.4	0.6
90°-100°	469.8	4.1
100°-110°	1265.4	11.1
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°	1487.3	13.0
0°-40°	2404.8	21.0
0°-60°	4110.2	35.9
0°-90°	4952.6	43.3
90°-120°	3063.3	26.8
90°-150°	5635.0	49.3
90°-180°	6483.0	56.7
0°-180°	11435.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1934	1934	1934	1934	1934	
5°	1941	1923	1929	1922	1922	184
15°	1866	1848	1856	1849	1846	527
25°	1719	1699	1707	1692	1690	790
35°	1485	1470	1475	1458	1456	928
45°	1207	1199	1198	1187	1187	929
55°	895	892	883	878	876	795
65°	529	519	507	504	505	528
75°	241	241	237	236	234	261
85°	56	61	61	61	61	66
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°	1934.1	1934.1	1934.1	1934.1	1934.1
2.5°	1946.3	1930.4	1934.1	1931.2	1923.3
5°	1940.9	1922.7	1929.0	1922.2	1922.2
7.5°	1927.7	1907.8	1914.1	1907.3	1907.0
10°	1915.5	1895.6	1901.9	1895.1	1893.4
12.5°	1897.8	1877.9	1885.6	1877.5	1877.1
15°	1866.3	1848.1	1856.1	1849.3	1846.0
17.5°	1830.7	1810.8	1820.5	1811.0	1809.7
20°	1803.6	1783.7	1793.4	1779.8	1779.8
22.5°	1771.0	1751.1	1762.2	1744.6	1744.6
25°	1718.8	1698.9	1707.0	1691.7	1690.0
27.5°	1656.8	1637.2	1645.6	1628.3	1628.0
30°	1612.0	1593.8	1603.6	1584.9	1583.2
32.5°	1563.2	1546.3	1553.4	1534.7	1533.0
35°	1484.9	1470.0	1474.7	1457.7	1456.1
37.5°	1402.5	1387.3	1392.7	1378.1	1377.4
40°	1344.2	1334.3	1335.7	1323.8	1320.5
42.5°	1290.0	1278.7	1280.1	1268.3	1267.6
45°	1206.9	1198.6	1198.4	1186.6	1186.6
47.5°	1118.8	1112.5	1110.6	1100.8	1100.5
50°	1057.7	1052.8	1051.0	1042.4	1040.8
52.5°	994.0	991.7	985.9	978.7	978.4
55°	895.0	891.7	883.1	878.0	876.4
57.5°	787.5	780.9	771.3	763.8	765.2
60°	710.2	703.6	689.9	686.5	686.5
62.5°	635.7	627.7	614.0	609.3	611.9
65°	528.9	518.9	506.8	503.5	505.1
67.5°	431.9	423.0	409.9	409.8	408.5
70°	369.5	364.6	354.3	354.3	354.3
72.5°	313.9	311.6	304.1	304.1	302.7
75°	240.7	240.7	237.3	235.6	233.9
77.5°	180.4	181.0	179.3	177.6	174.6
80°	142.4	145.7	144.1	142.4	140.7
82.5°	107.1	110.4	110.2	107.1	106.8
85°	55.9	60.9	61.0	61.0	61.0
87.5°	15.4	21.7	24.8	25.1	26.4
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)