

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: P565051

Luminaire Tested: **SQ4-PW1-125U-100D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565051
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

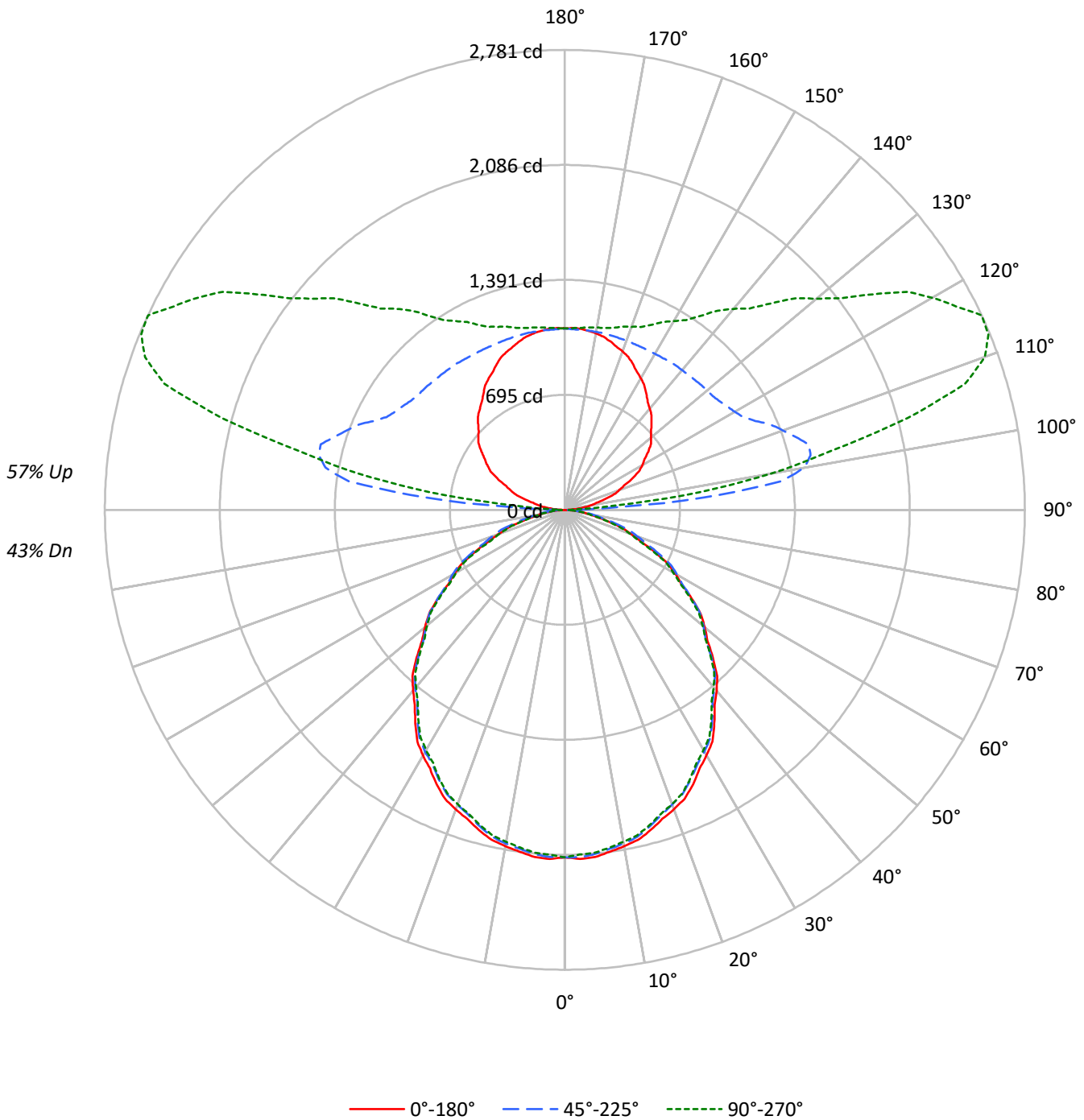
Lumens per Lamp: N/A
Luminaire Lumens: 12426.7 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50	43
1	96	92	88	85	88	84	81	78	70	67	65	56	55	53	44	43	42	36
2	88	80	74	69	80	74	69	64	61	57	54	50	47	45	39	37	36	31
3	80	71	64	58	73	65	59	54	54	49	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	45	48	43	39	39	35	32	31	28	26	22
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	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	48	38	31	26	32	27	23	26	22	19	21	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	17	14	12
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12924	12924	12924
5°	13007	12905	12847
10°	12904	12799	12730
15°	12767	12625	12578
20°	12614	12420	12396
25°	12438	12212	12175
30°	12176	11991	11912
35°	11829	11663	11593
40°	11460	11282	11237
45°	11015	10870	10821
50°	10557	10469	10399
55°	10065	10065	9906
60°	9451	9633	9291
65°	8649	9080	8433
70°	7623	8357	7424
75°	6512	7479	6336
80°	5048	6294	5115
85°	3268	4834	4312



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.9	1.6
10°-20°	558.6	4.5
20°-30°	828.6	6.7
30°-40°	969.5	7.8
40°-50°	965.2	7.8
50°-60°	833.5	6.7
60°-70°	600.0	4.8
70°-80°	314.6	2.5
80°-90°	80.6	0.6
90°-100°	512.9	4.1
100°-110°	1381.7	11.1
110°-120°	1450.0	11.7
120°-130°	1176.7	9.5
130°-140°	922.8	7.4
140°-150°	708.5	5.7
150°-160°	509.4	4.1
160°-170°	311.2	2.5
170°-180°	105.0	0.8
0°-30°	1585.1	12.8
0°-40°	2554.6	20.6
0°-60°	4353.3	35.0
0°-90°	5348.5	43.0
90°-120°	3344.6	26.9
90°-150°	6152.6	49.5
90°-180°	7078.0	57.0
0°-180°	12426.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2101	2101	2101	2101	2101	
5°	2107	2083	2090	2084	2081	200
15°	2005	1980	1983	1979	1975	565
25°	1833	1802	1799	1788	1794	843
35°	1575	1554	1553	1538	1544	985
45°	1266	1255	1250	1246	1244	977
55°	939	937	939	926	924	837
65°	594	612	624	599	579	589
75°	274	299	315	294	267	294
85°	46	61	68	65	61	61
90°	3	8	17	18	18	7
95°	78	279	841	430	298	82
105°	256	398	1528	2286	2145	269
115°	451	552	1272	2459	2781	444
125°	616	708	1142	1931	2272	550
135°	742	828	1110	1558	1764	572
145°	858	924	1096	1332	1430	538
155°	974	1009	1087	1195	1233	448
165°	1056	1068	1091	1134	1140	298
175°	1098	1096	1092	1108	1105	104
180°	1096	1096	1096	1096	1096	

TEST NUMBER: P565051

CATALOG NUMBER: SQ4-PW1-125U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2101.2	2101.2	2101.2	2101.2	2101.2
2.5°	2113.0	2095.6	2101.2	2096.5	2086.4
5°	2106.7	2083.2	2090.1	2084.4	2080.8
7.5°	2085.2	2063.5	2068.6	2062.6	2060.4
10°	2066.0	2044.3	2049.3	2041.8	2038.2
12.5°	2043.8	2020.6	2025.6	2018.2	2016.0
15°	2004.9	1979.6	1982.7	1978.9	1975.3
17.5°	1959.7	1934.0	1934.6	1928.6	1927.9
20°	1927.1	1900.0	1897.5	1890.2	1893.8
22.5°	1891.6	1863.0	1860.5	1850.3	1855.3
25°	1832.7	1802.0	1799.4	1788.4	1793.9
27.5°	1764.6	1734.2	1734.2	1718.8	1724.6
30°	1714.3	1685.3	1688.3	1670.0	1677.2
32.5°	1660.9	1634.9	1636.5	1618.2	1625.4
35°	1575.4	1553.7	1553.2	1538.5	1543.9
37.5°	1488.0	1468.8	1465.8	1457.3	1458.8
40°	1427.3	1411.0	1405.1	1399.5	1399.5
42.5°	1363.6	1348.8	1342.9	1338.8	1337.3
45°	1266.3	1255.4	1249.6	1245.8	1244.0
47.5°	1170.0	1159.9	1154.8	1152.2	1150.4
50°	1103.3	1096.1	1094.1	1088.5	1086.7
52.5°	1036.7	1032.4	1030.4	1023.3	1021.5
55°	938.6	936.8	938.6	925.6	923.8
57.5°	836.4	839.3	845.3	827.8	823.4
60°	768.3	775.5	783.1	762.5	755.3
62.5°	698.7	710.2	720.9	697.3	687.2
65°	594.3	612.4	623.9	599.4	579.4
67.5°	493.5	516.0	529.8	503.4	481.0
70°	423.9	449.3	464.7	438.2	412.8
72.5°	363.2	391.5	403.9	378.9	353.6
75°	274.0	299.3	314.7	293.7	266.6
77.5°	194.4	218.3	231.0	212.8	190.3
80°	142.5	167.9	177.7	162.5	144.4
82.5°	101.1	122.1	128.8	119.7	107.4
85°	46.3	60.8	68.5	64.7	61.1
87.5°	12.4	23.6	31.5	31.8	33.3
90°	2.8	8.3	16.8	18.2	18.2
92.5°	34.1	120.4	238.0	114.6	79.6
95°	78.2	279.0	840.8	430.0	297.5
97.5°	124.9	319.3	1318.8	1101.7	830.8
100°	160.6	335.4	1470.8	1538.8	1276.6
102.5°	195.3	358.1	1521.1	1866.2	1651.0
105°	255.6	397.6	1528.0	2286.1	2145.4
107.5°	312.6	439.3	1463.0	2501.9	2538.2
110°	350.6	470.8	1403.7	2568.8	2701.3



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CATALOG NUMBER: SQ4-PW1-125U-100D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	390.8	502.3	1346.7	2554.0	2771.7
115°	451.2	552.2	1272.4	2458.6	2780.9
117.5°	506.2	601.0	1214.9	2306.4	2665.3
120°	541.9	633.4	1185.8	2197.1	2565.8
122.5°	573.2	663.6	1164.6	2085.3	2453.0
125°	616.0	707.5	1142.5	1931.1	2272.5
127.5°	657.0	747.2	1128.6	1795.1	2099.9
130°	681.6	771.8	1123.0	1717.1	1984.8
132.5°	706.2	795.2	1117.4	1648.4	1894.3
135°	741.7	827.7	1110.4	1557.9	1764.1
137.5°	775.5	858.0	1106.8	1481.1	1650.4
140°	798.9	878.2	1103.4	1433.8	1586.7
142.5°	823.5	897.3	1101.2	1389.6	1518.5
145°	857.6	924.5	1096.5	1331.9	1430.3
147.5°	894.5	952.7	1091.7	1283.4	1360.7
150°	919.1	969.6	1089.5	1252.9	1317.1
152.5°	941.4	985.4	1088.3	1228.1	1280.3
155°	973.5	1009.0	1086.7	1195.1	1233.3
157.5°	1001.8	1029.3	1087.0	1171.9	1197.6
160°	1019.6	1042.8	1088.1	1158.3	1177.5
162.5°	1035.3	1054.1	1089.2	1147.0	1160.7
165°	1055.9	1068.2	1090.9	1134.3	1139.8
167.5°	1072.7	1079.8	1092.3	1124.4	1126.6
170°	1083.9	1086.6	1092.3	1118.8	1118.8
172.5°	1090.6	1091.1	1093.4	1113.2	1113.2
175°	1097.8	1096.5	1092.3	1107.6	1104.8
177.5°	1100.9	1098.7	1093.1	1102.0	1099.8
180°	1096.5	1096.5	1096.5	1096.5	1096.5

(END OF REPORT)