

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: P565024

Luminaire Tested: **SQ4-PW1-125U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565024
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-050D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

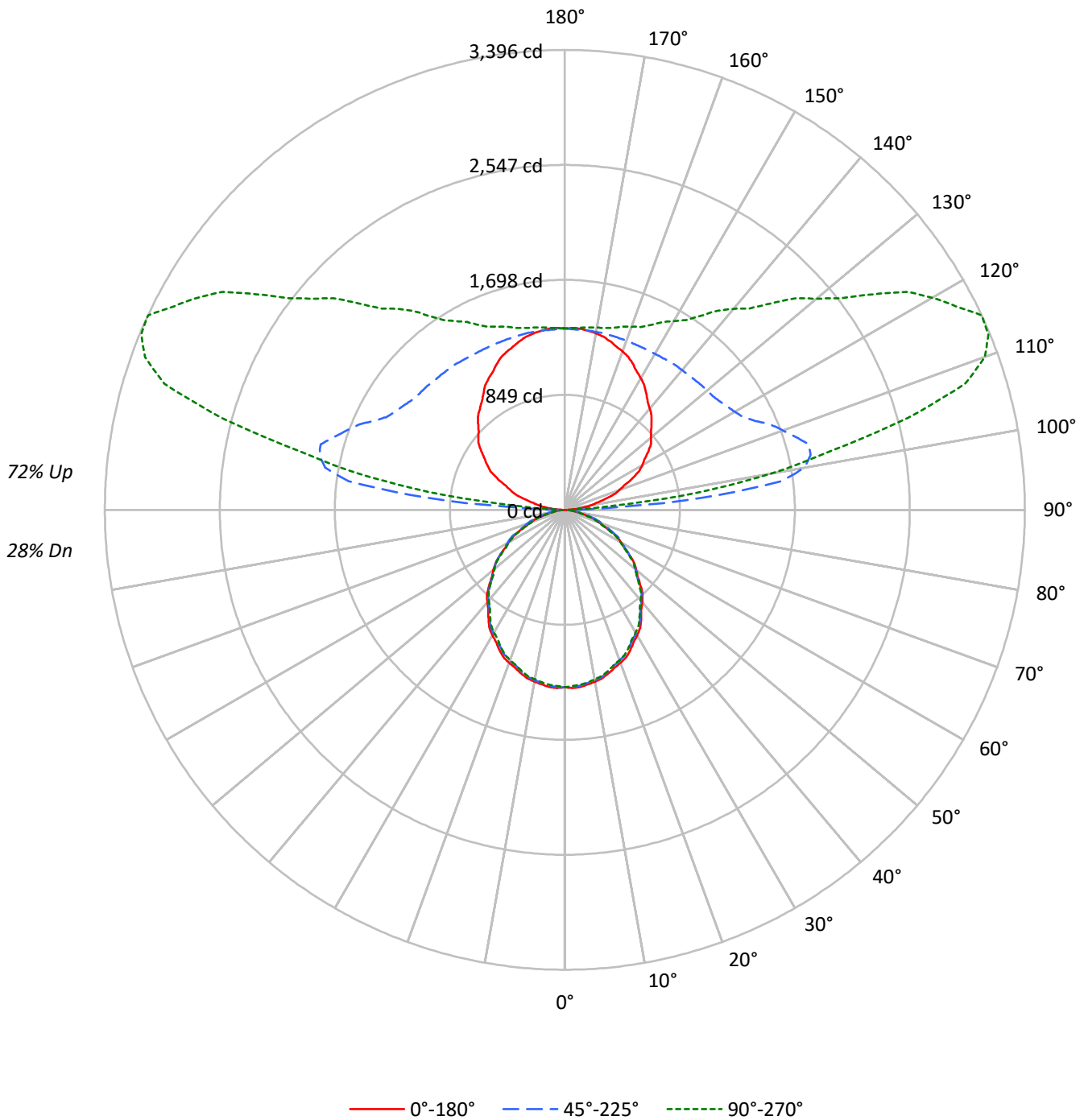
Lumens per Lamp: N/A
Luminaire Lumens: 11980.3 lumens
Efficiency: N/A
Efficacy: 123.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6044	6044	6044
5°	6083	6035	6008
10°	6035	5986	5954
15°	5971	5904	5882
20°	5899	5809	5797
25°	5817	5711	5694
30°	5694	5608	5571
35°	5532	5454	5421
40°	5360	5276	5255
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4420	4505	4346
65°	4045	4246	3944
70°	3566	3907	3472
75°	3044	3497	2962
80°	2362	2943	2391
85°	1530	2260	2017



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	1.0
10°-20°	348.3	2.9
20°-30°	516.7	4.3
30°-40°	604.6	5.0
40°-50°	601.9	5.0
50°-60°	519.7	4.3
60°-70°	374.1	3.1
70°-80°	196.2	1.6
80°-90°	51.8	0.4
90°-100°	626.4	5.2
100°-110°	1687.3	14.1
110°-120°	1770.7	14.8
120°-130°	1436.9	12.0
130°-140°	1126.9	9.4
140°-150°	865.2	7.2
150°-160°	622.1	5.2
160°-170°	380.0	3.2
170°-180°	128.2	1.1
0°-30°	988.4	8.3
0°-40°	1592.9	13.3
0°-60°	2714.6	22.7
0°-90°	3336.7	27.9
90°-120°	4084.4	34.1
90°-150°	7513.4	62.7
90°-180°	8644.0	72.2
0°-180°	11980.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1314	1299	1303	1300	1298	124
15°	1250	1234	1236	1234	1232	352
25°	1143	1124	1122	1115	1119	525
35°	982	969	968	959	963	614
45°	790	783	779	777	776	609
55°	585	584	585	577	576	522
65°	371	382	389	374	361	367
75°	171	187	196	183	166	183
85°	29	38	43	40	38	38
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	

TEST NUMBER: P565024

CATALOG NUMBER: SQ4-PW1-125U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.2	1310.2	1310.2	1310.2	1310.2
2.5°	1317.6	1306.8	1310.2	1307.3	1301.0
5°	1313.7	1299.0	1303.3	1299.8	1297.5
7.5°	1300.3	1286.7	1289.9	1286.2	1284.8
10°	1288.3	1274.7	1277.9	1273.2	1271.0
12.5°	1274.4	1260.0	1263.1	1258.5	1257.1
15°	1250.2	1234.4	1236.3	1234.0	1231.7
17.5°	1222.0	1206.0	1206.3	1202.6	1202.2
20°	1201.7	1184.8	1183.2	1178.7	1180.9
22.5°	1179.5	1161.7	1160.1	1153.7	1156.9
25°	1142.8	1123.6	1122.0	1115.2	1118.6
27.5°	1100.3	1081.4	1081.4	1071.8	1075.4
30°	1068.9	1050.9	1052.8	1041.3	1045.9
32.5°	1035.7	1019.4	1020.5	1009.0	1013.5
35°	982.4	968.8	968.5	959.4	962.7
37.5°	927.9	915.9	914.0	908.7	909.6
40°	890.0	879.9	876.2	872.7	872.7
42.5°	850.3	841.1	837.4	834.8	833.9
45°	789.6	782.8	779.2	776.9	775.7
47.5°	729.6	723.2	720.1	718.5	717.3
50°	688.0	683.5	682.2	678.7	677.6
52.5°	646.4	643.7	642.5	638.1	637.0
55°	585.3	584.1	585.3	577.2	576.0
57.5°	521.5	523.4	527.1	516.2	513.5
60°	479.1	483.6	488.3	475.5	471.0
62.5°	435.7	442.9	449.5	434.8	428.5
65°	370.6	381.8	389.0	373.7	361.3
67.5°	307.8	321.8	330.4	313.9	299.9
70°	264.4	280.2	289.7	273.2	257.4
72.5°	226.5	244.1	251.9	236.3	220.5
75°	170.8	186.6	196.2	183.2	166.2
77.5°	121.2	136.1	144.1	132.7	118.7
80°	88.9	104.7	110.8	101.3	90.0
82.5°	63.0	76.1	80.3	74.6	67.0
85°	28.9	37.9	42.7	40.4	38.1
87.5°	8.1	15.7	21.6	22.0	22.9
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

TEST NUMBER: P565024

CATALOG NUMBER: SQ4-PW1-125U-050D-940-1D-UNV-STD-W-8

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)