

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: P565096

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565096
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-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

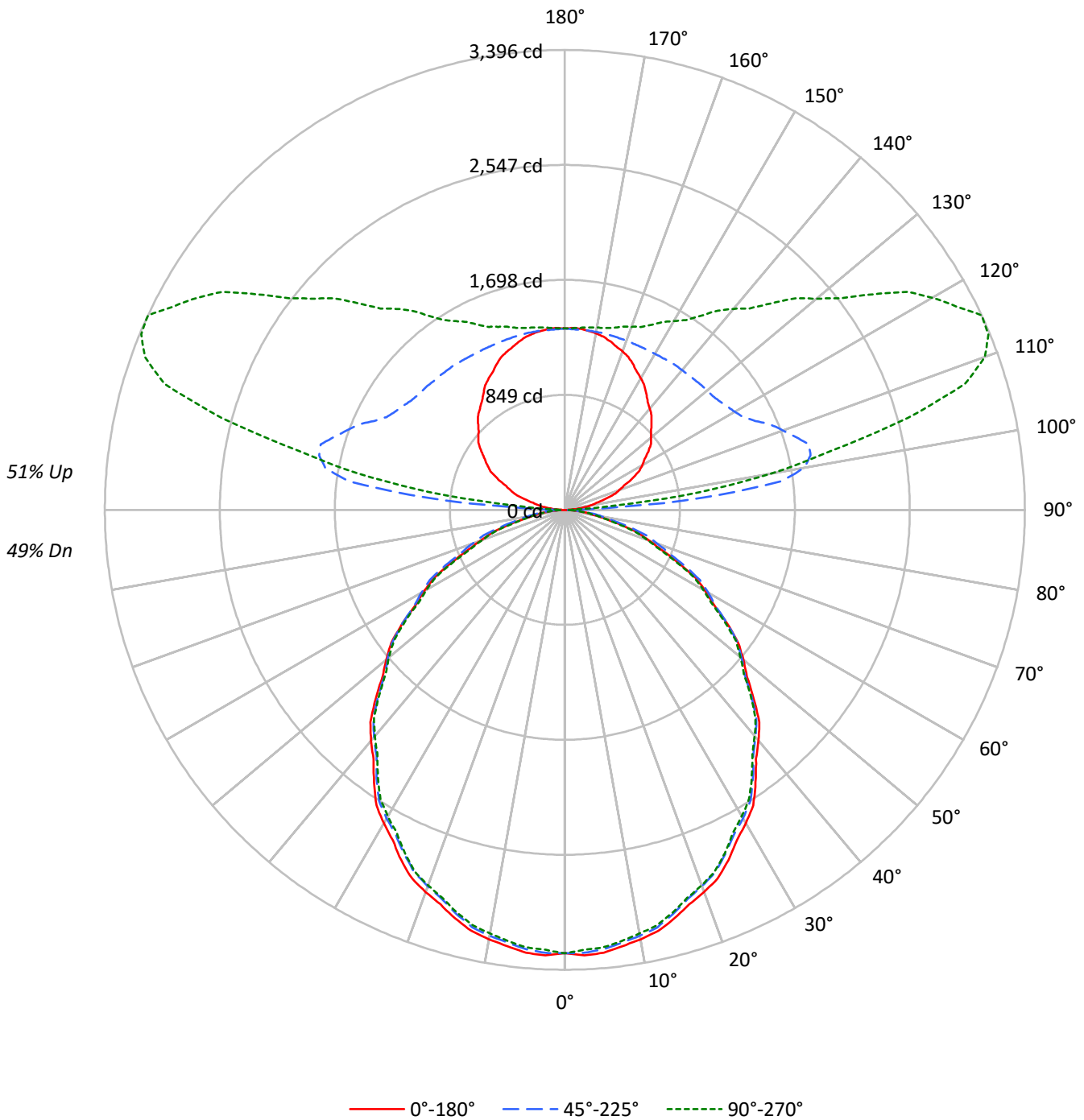
Lumens per Lamp: N/A
Luminaire Lumens: 16977.6 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 152.7
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	107	107	107	107	99	99	99	99	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	66	60	55	56	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29	25
5	68	57	49	43	63	53	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19
7	58	46	38	32	53	43	36	31	37	31	27	31	27	23	26	22	20	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	31	25	46	35	29	24	31	25	21	26	22	19	22	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15083	15016
10°	15081	14960	14879
15°	14922	14756	14701
20°	14743	14516	14488
25°	14538	14273	14229
30°	14230	14015	13923
35°	13826	13631	13550
40°	13395	13186	13134
45°	12874	12704	12648
50°	12340	12236	12153
55°	11763	11763	11578
60°	11046	11259	10859
65°	10109	10612	9857
70°	8910	9767	8677
75°	7611	8741	7404
80°	5900	7359	5977
85°	3816	5648	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.3	1.8
10°-20°	870.5	5.1
20°-30°	1291.3	7.6
30°-40°	1510.9	8.9
40°-50°	1504.2	8.9
50°-60°	1298.9	7.7
60°-70°	935.0	5.5
70°-80°	490.3	2.9
80°-90°	124.7	0.7
90°-100°	626.4	3.7
100°-110°	1687.3	9.9
110°-120°	1770.7	10.4
120°-130°	1436.9	8.5
130°-140°	1126.9	6.6
140°-150°	865.2	5.1
150°-160°	622.1	3.7
160°-170°	380.0	2.2
170°-180°	128.2	0.8
0°-30°	2470.1	14.5
0°-40°	3981.0	23.4
0°-60°	6784.0	40.0
0°-90°	8334.0	49.1
90°-120°	4084.4	24.1
90°-150°	7513.4	44.3
90°-180°	8644.0	50.9
0°-180°	16977.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3274	3274	3274	3274	3274	
5°	3283	3246	3257	3248	3243	311
15°	3124	3085	3090	3084	3078	881
25°	2856	2808	2804	2787	2796	1313
35°	2455	2421	2420	2398	2406	1535
45°	1973	1956	1947	1942	1939	1523
55°	1463	1460	1463	1442	1440	1305
65°	926	954	972	934	903	918
75°	427	466	490	458	415	458
85°	72	95	107	101	95	95
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°	3274.4	3274.4	3274.4	3274.4	3274.4
2.5°	3292.8	3265.8	3274.4	3267.1	3251.3
5°	3283.0	3246.4	3257.1	3248.3	3242.6
7.5°	3249.6	3215.7	3223.6	3214.3	3210.9
10°	3219.6	3185.7	3193.6	3181.9	3176.3
12.5°	3184.9	3148.8	3156.7	3145.1	3141.7
15°	3124.4	3084.9	3089.7	3083.8	3078.2
17.5°	3054.0	3013.9	3014.7	3005.5	3004.3
20°	3003.2	2960.9	2957.0	2945.6	2951.3
22.5°	2947.8	2903.2	2899.3	2883.4	2891.3
25°	2856.1	2808.1	2804.1	2787.0	2795.5
27.5°	2749.9	2702.5	2702.6	2678.6	2687.6
30°	2671.4	2626.3	2631.0	2602.4	2613.7
32.5°	2588.3	2547.7	2550.3	2521.7	2533.0
35°	2455.1	2421.2	2420.4	2397.6	2406.0
37.5°	2318.9	2289.0	2284.3	2271.1	2273.3
40°	2224.3	2198.9	2189.6	2181.0	2181.0
42.5°	2125.0	2101.9	2092.7	2086.3	2084.1
45°	1973.3	1956.4	1947.3	1941.5	1938.7
47.5°	1823.3	1807.5	1799.6	1795.5	1792.7
50°	1719.4	1708.1	1705.0	1696.3	1693.4
52.5°	1615.5	1608.8	1605.7	1594.7	1591.9
55°	1462.6	1459.8	1462.6	1442.4	1439.6
57.5°	1303.4	1307.9	1317.2	1290.0	1283.2
60°	1197.2	1208.5	1220.3	1188.3	1177.0
62.5°	1088.8	1106.8	1123.4	1086.7	1070.9
65°	926.1	954.3	972.2	934.0	903.0
67.5°	769.1	804.1	825.7	784.5	749.5
70°	660.6	700.1	724.1	682.8	643.3
72.5°	566.0	610.0	629.5	590.5	551.0
75°	427.0	466.5	490.4	457.7	415.4
77.5°	302.9	340.2	360.0	331.5	296.6
80°	222.1	261.6	277.0	253.2	225.0
82.5°	157.5	190.2	200.8	186.5	167.3
85°	72.1	94.7	106.7	100.8	95.2
87.5°	19.1	36.3	47.9	48.3	50.6
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	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)