

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: P520362

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520362
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-125D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

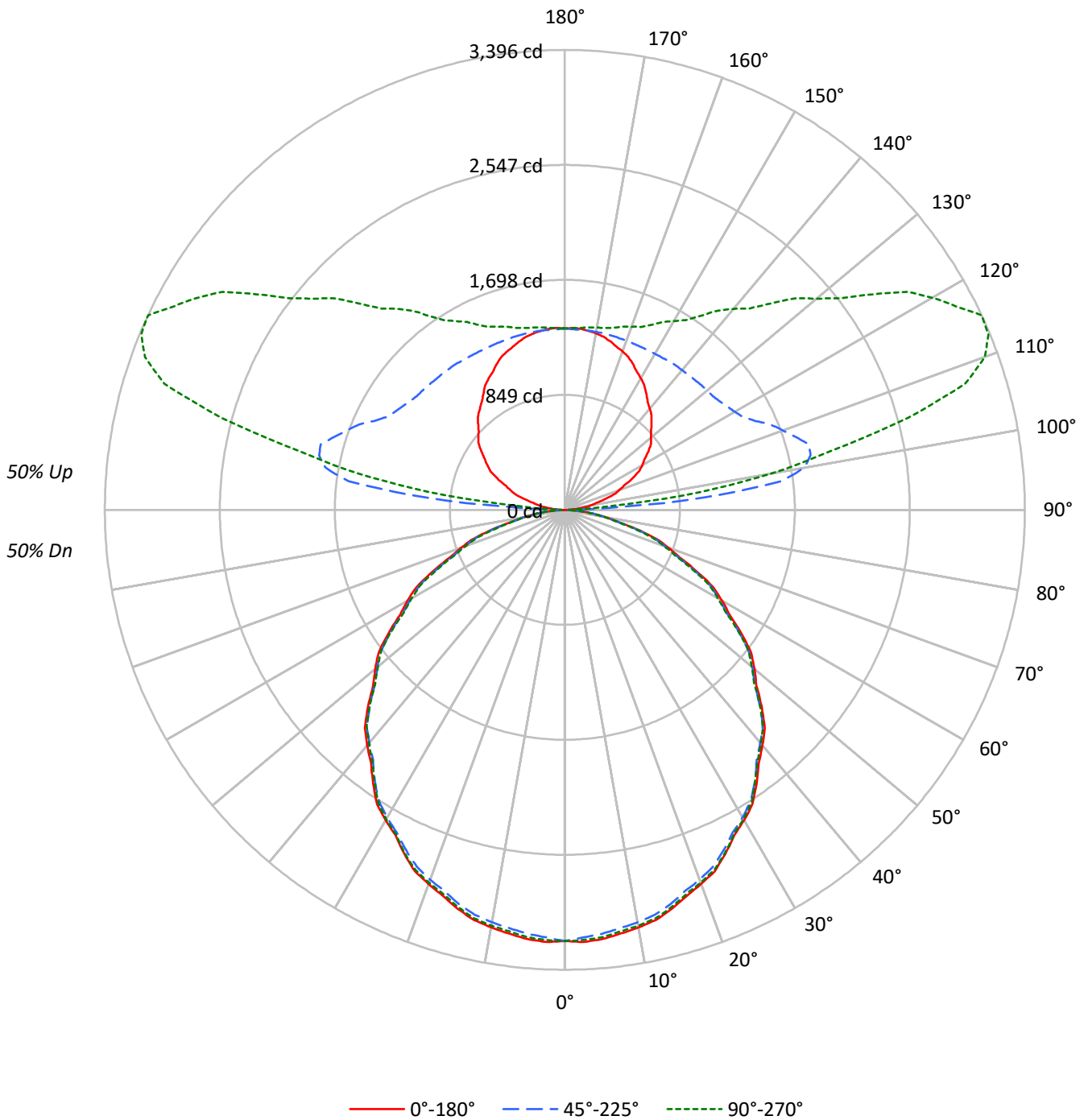
Lumens per Lamp: N/A
Luminaire Lumens: 17333.7 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 142
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	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	50	49	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	51	47	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	50	42	36	58	47	40	34	40	34	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	33	28	49	38	31	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	18	22	18	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14688	14688	14688
5°	14736	14549	14672
10°	14669	14488	14603
15°	14570	14394	14511
20°	14435	14271	14383
25°	14271	14119	14235
30°	14095	13974	14048
35°	13895	13776	13787
40°	13666	13518	13560
45°	13410	13261	13285
50°	13117	12966	12928
55°	12783	12600	12571
60°	12369	12094	12028
65°	11725	11477	11323
70°	10920	10635	10495
75°	9714	9495	9213
80°	7914	7683	7632
85°	4732	5383	5383



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.4	1.7
10°-20°	855.6	4.9
20°-30°	1285.5	7.4
30°-40°	1533.8	8.8
40°-50°	1572.2	9.1
50°-60°	1401.3	8.1
60°-70°	1043.2	6.0
70°-80°	565.1	3.3
80°-90°	132.9	0.8
90°-100°	626.4	3.6
100°-110°	1687.3	9.7
110°-120°	1770.7	10.2
120°-130°	1436.9	8.3
130°-140°	1126.9	6.5
140°-150°	865.2	5.0
150°-160°	622.1	3.6
160°-170°	380.1	2.2
170°-180°	128.2	0.7
0°-30°	2441.5	14.1
0°-40°	3975.3	22.9
0°-60°	6948.8	40.1
0°-90°	8690.0	50.1
90°-120°	4084.4	23.6
90°-150°	7513.4	43.3
90°-180°	8644.0	49.9
0°-180°	17333.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3184	3184	3184	3184	3184	
5°	3182	3177	3142	3170	3168	302
15°	3051	3044	3014	3040	3038	860
25°	2804	2799	2774	2790	2797	1291
35°	2467	2466	2446	2446	2448	1543
45°	2056	2050	2033	2029	2036	1584
55°	1589	1584	1567	1554	1563	1419
65°	1074	1067	1051	1044	1037	1064
75°	545	545	533	522	517	579
85°	89	101	102	103	102	124
90°	4	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°	1289	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°	3184.0	3184.0	3184.0	3184.0	3184.0
2.5°	3193.8	3188.3	3160.1	3183.9	3179.8
5°	3182.2	3177.1	3141.9	3170.0	3168.3
7.5°	3155.3	3148.7	3116.7	3142.9	3139.9
10°	3131.5	3126.3	3092.9	3119.1	3117.4
12.5°	3102.0	3096.8	3063.5	3089.7	3089.4
15°	3050.8	3044.0	3014.0	3040.2	3038.5
17.5°	2989.5	2981.6	2952.0	2972.7	2976.2
20°	2940.4	2935.2	2907.1	2926.4	2929.9
22.5°	2889.9	2883.5	2853.9	2876.0	2879.4
25°	2803.7	2798.6	2773.9	2789.9	2796.7
27.5°	2709.1	2709.1	2686.3	2697.7	2701.7
30°	2646.0	2646.0	2623.3	2630.4	2637.3
32.5°	2578.7	2573.2	2551.7	2557.5	2564.4
35°	2467.3	2465.6	2446.2	2446.3	2448.1
37.5°	2352.0	2347.2	2326.0	2327.6	2335.9
40°	2269.3	2265.8	2244.7	2244.9	2251.7
42.5°	2185.1	2181.7	2163.5	2160.7	2163.5
45°	2055.5	2050.3	2032.7	2029.4	2036.3
47.5°	1917.4	1918.8	1897.8	1892.9	1896.7
50°	1827.7	1827.7	1806.7	1796.3	1801.4
52.5°	1733.7	1731.0	1709.9	1698.3	1710.3
55°	1589.4	1584.2	1566.6	1554.5	1563.0
57.5°	1441.4	1433.6	1415.9	1402.7	1407.5
60°	1340.6	1328.5	1310.8	1300.3	1303.7
62.5°	1235.4	1228.9	1209.8	1193.8	1201.4
65°	1074.2	1067.3	1051.4	1044.2	1037.3
67.5°	916.1	911.7	893.7	886.2	881.8
70°	809.6	801.0	788.5	779.7	778.1
72.5°	705.8	695.9	683.4	675.9	671.5
75°	545.0	545.0	532.7	522.1	516.9
77.5°	391.8	393.1	383.1	379.5	377.1
80°	297.9	297.9	289.2	285.7	287.3
82.5°	208.2	212.3	209.2	204.2	201.9
85°	89.4	101.4	101.7	103.4	101.7
87.5°	16.1	27.1	30.8	28.3	25.5
90°	3.5	10.1	20.4	22.2	22.2
92.5°	41.6	147.0	290.7	139.9	97.2
95°	95.5	340.7	1026.8	525.0	363.3
97.5°	152.4	390.0	1610.5	1345.4	1014.5
100°	196.2	409.6	1796.0	1879.2	1559.0
102.5°	238.5	437.2	1857.5	2278.9	2016.1
105°	312.1	485.6	1866.0	2791.6	2619.9
107.5°	381.8	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°	477.3	613.3	1644.6	3118.9	3384.7
115°	550.9	674.3	1553.9	3002.4	3396.0
117.5°	618.2	733.9	1483.6	2816.5	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	864.0	1395.2	2358.2	2775.1
127.5°	802.3	912.4	1378.1	2192.1	2564.3
130°	832.4	942.4	1371.3	2096.9	2423.8
132.5°	862.4	971.1	1364.5	2013.0	2313.3
135°	905.7	1010.8	1356.0	1902.4	2154.2
137.5°	947.0	1047.7	1351.6	1808.6	2015.4
140°	975.7	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	1339.0	1626.5	1746.6
147.5°	1092.3	1163.3	1333.2	1567.3	1661.6
150°	1122.3	1184.1	1330.4	1530.0	1608.4
152.5°	1149.6	1203.3	1329.0	1499.7	1563.5
155°	1188.8	1232.2	1327.0	1459.4	1506.1
157.5°	1223.3	1257.0	1327.3	1431.0	1462.4
160°	1245.1	1273.5	1328.7	1414.6	1437.8
162.5°	1264.3	1287.3	1330.1	1400.7	1417.4
165°	1289.4	1304.4	1332.2	1385.2	1391.9
167.5°	1310.0	1318.6	1333.8	1373.1	1375.8
170°	1323.6	1326.9	1333.8	1366.2	1366.2
172.5°	1331.8	1332.5	1335.2	1359.4	1359.4
175°	1340.7	1339.0	1333.8	1352.5	1349.1
177.5°	1344.4	1341.7	1334.8	1345.7	1343.0
180°	1339.0	1339.0	1339.0	1339.0	1339.0

(END OF REPORT)