

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521636

Luminaire Tested: **SQ4-F-125U-100D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521636
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-100D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

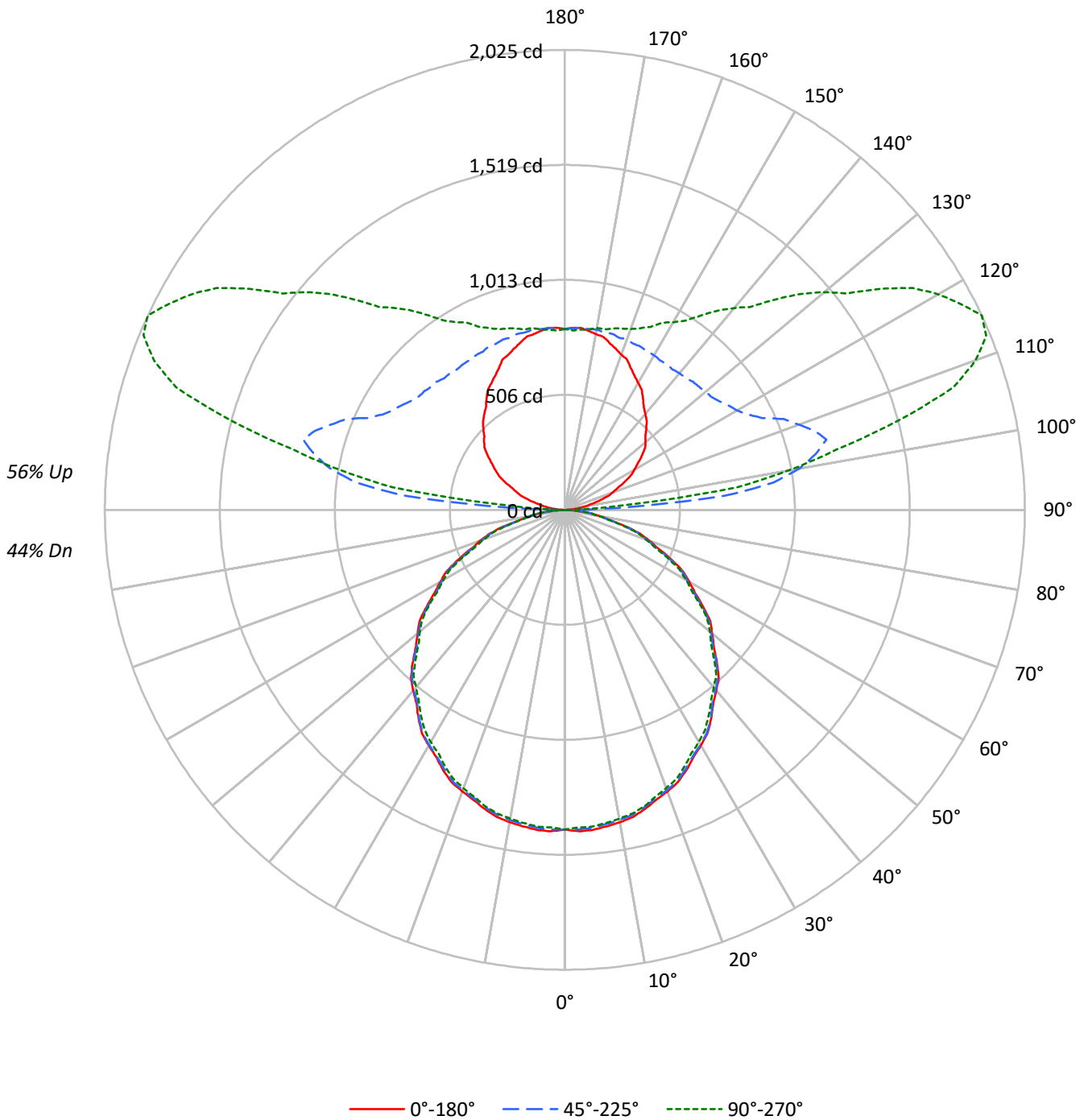
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9172.6 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.8
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	65	65	65	50	50	50	44
1	96	92	88	85	88	84	81	78	70	67	65	57	55	53	44	43	42	37
2	88	80	74	69	80	73	68	64	61	57	54	49	47	44	39	37	35	30
3	80	70	63	57	73	64	58	53	54	49	45	44	40	37	34	32	30	26
4	73	62	54	48	66	57	50	45	48	42	38	39	35	32	31	28	26	22
5	67	55	47	41	61	51	44	38	42	37	33	35	31	27	27	25	22	19
6	61	49	41	35	56	45	38	33	38	33	28	31	27	24	25	22	19	16
7	57	44	36	31	52	41	34	29	34	29	25	28	24	21	23	20	17	15
8	53	40	33	27	48	37	30	25	31	26	22	26	22	19	21	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	26	22	42	31	25	20	26	21	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12989	12989	12989
5°	13104	13010	12963
10°	13085	12990	12933
15°	13023	12945	12906
20°	12959	12899	12800
25°	12881	12808	12695
30°	12759	12727	12575
35°	12646	12601	12441
40°	12500	12440	12269
45°	12343	12277	12106
50°	12142	12070	11954
55°	11932	11818	11689
60°	11656	11525	11357
65°	11274	11053	10854
70°	10634	10388	10197
75°	9693	9368	9186
80°	7948	7948	7948
85°	5674	6415	6743



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	1.5
10°-20°	381.7	4.2
20°-30°	577.4	6.3
30°-40°	695.4	7.6
40°-50°	722.2	7.9
50°-60°	655.4	7.1
60°-70°	500.0	5.5
70°-80°	279.5	3.0
80°-90°	72.8	0.8
90°-100°	410.4	4.5
100°-110°	991.9	10.8
110°-120°	1057.9	11.5
120°-130°	856.8	9.3
130°-140°	663.4	7.2
140°-150°	506.1	5.5
150°-160°	366.3	4.0
160°-170°	225.6	2.5
170°-180°	76.4	0.8
0°-30°	1092.4	11.9
0°-40°	1787.7	19.5
0°-60°	3165.3	34.5
0°-90°	4017.7	43.8
90°-120°	2460.2	26.8
90°-150°	4486.5	48.9
90°-180°	5155.0	56.2
0°-180°	9172.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1408	1408	1408	1408	1408	
5°	1415	1400	1405	1402	1400	134
15°	1363	1350	1355	1351	1351	385
25°	1265	1252	1258	1247	1247	583
35°	1123	1113	1119	1105	1105	702
45°	946	939	941	928	928	730
55°	742	740	735	727	727	664
65°	516	512	506	499	497	509
75°	272	268	263	259	258	286
85°	54	58	61	62	64	66
90°	0	0	0	0	0	4
95°	40	205	703	457	320	45
105°	158	274	1192	1542	1523	167
115°	290	371	958	1816	2025	287
125°	413	476	831	1444	1696	369
135°	508	567	798	1139	1310	392
145°	600	645	782	968	1044	375
155°	688	718	792	857	889	318
165°	760	772	803	815	826	215
175°	804	801	804	798	796	76
180°	796	796	796	796	796	



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CATALOG NUMBER: SQ4-F-125U-100D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1407.8	1407.8	1407.8	1407.8	1407.8
2.5°	1416.7	1404.9	1408.6	1406.9	1399.7
5°	1414.9	1400.1	1404.8	1401.7	1399.7
7.5°	1405.6	1390.8	1395.5	1391.4	1390.2
10°	1396.7	1381.9	1386.6	1382.5	1380.5
12.5°	1384.6	1370.5	1375.3	1370.4	1370.0
15°	1363.4	1349.5	1355.3	1351.2	1351.2
17.5°	1338.5	1325.6	1331.6	1325.7	1324.7
20°	1319.9	1307.1	1313.8	1304.7	1303.7
22.5°	1298.9	1286.8	1292.8	1282.1	1282.7
25°	1265.3	1252.5	1258.2	1247.1	1247.1
27.5°	1226.7	1214.1	1221.3	1207.9	1207.1
30°	1197.6	1185.8	1194.6	1180.4	1180.4
32.5°	1168.5	1158.2	1164.7	1151.3	1148.9
35°	1122.8	1112.9	1118.8	1104.6	1104.6
37.5°	1072.7	1064.6	1067.6	1054.6	1057.5
40°	1037.9	1029.0	1032.9	1019.7	1018.7
42.5°	1002.4	994.3	997.3	984.2	987.2
45°	946.0	939.0	940.9	927.8	927.8
47.5°	888.8	883.6	882.1	870.4	872.4
50°	845.9	843.9	840.9	830.8	832.8
52.5°	807.1	802.8	798.8	789.5	790.7
55°	741.8	739.8	734.7	726.7	726.7
57.5°	679.4	675.0	669.0	660.8	660.8
60°	631.7	629.7	624.6	615.5	615.5
62.5°	586.4	583.6	577.7	569.4	568.6
65°	516.4	512.5	506.3	499.2	497.2
67.5°	443.5	439.3	434.4	427.7	426.5
70°	394.2	389.2	385.1	380.0	378.0
72.5°	344.0	341.5	336.5	331.5	330.3
75°	271.9	267.9	262.8	258.7	257.7
77.5°	195.7	195.1	193.2	190.6	191.6
80°	149.6	150.6	149.6	148.6	149.6
82.5°	108.3	110.9	110.8	110.6	111.6
85°	53.6	58.5	60.6	61.7	63.7
87.5°	15.4	20.1	24.3	25.1	25.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.5	111.1	261.7	127.2	86.3
95°	40.5	205.3	703.1	457.2	320.4
97.5°	71.8	227.5	926.1	892.2	765.9
100°	96.1	241.2	1048.8	1107.2	1003.3
102.5°	119.0	253.6	1129.8	1286.2	1224.5
105°	158.5	273.9	1192.1	1542.4	1522.6
107.5°	197.3	297.9	1155.4	1748.0	1794.5
110°	224.3	318.2	1096.0	1836.6	1924.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	251.2	338.6	1043.4	1858.2	2007.6
115°	290.0	370.8	957.8	1815.7	2025.1
117.5°	328.5	404.6	907.5	1718.1	1963.4
120°	354.1	425.0	875.1	1641.5	1898.7
122.5°	381.1	446.7	854.9	1563.1	1816.4
125°	413.1	475.8	831.3	1444.1	1696.3
127.5°	444.8	503.8	814.8	1343.2	1564.8
130°	463.7	521.4	809.4	1273.0	1490.6
132.5°	481.2	541.6	801.3	1222.3	1407.0
135°	507.5	566.9	797.6	1138.7	1310.2
137.5°	532.5	592.2	785.8	1082.1	1211.4
140°	551.4	605.8	785.8	1041.4	1160.1
142.5°	570.3	624.7	779.0	1005.9	1106.1
145°	600.3	644.8	782.4	967.9	1043.8
147.5°	628.3	671.5	780.4	924.1	986.8
150°	645.8	683.7	785.8	904.9	954.4
152.5°	664.7	701.3	784.4	884.6	928.8
155°	688.0	717.6	792.5	857.3	888.6
157.5°	716.0	741.4	790.8	846.9	865.4
160°	726.8	748.2	797.6	833.3	846.5
162.5°	744.3	763.1	794.9	829.1	837.0
165°	760.5	772.0	802.6	814.7	826.2
167.5°	780.4	788.0	800.6	813.8	814.1
170°	785.8	790.7	806.0	804.5	812.7
172.5°	795.2	798.8	802.0	805.6	800.6
175°	804.3	801.0	804.3	797.5	795.9
177.5°	802.6	802.6	799.9	797.1	790.5
180°	795.9	795.9	795.9	795.9	795.9

(END OF REPORT)