

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: P519754

Luminaire Tested: **SQ4-125U-0D-930-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519754
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-125U-0D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

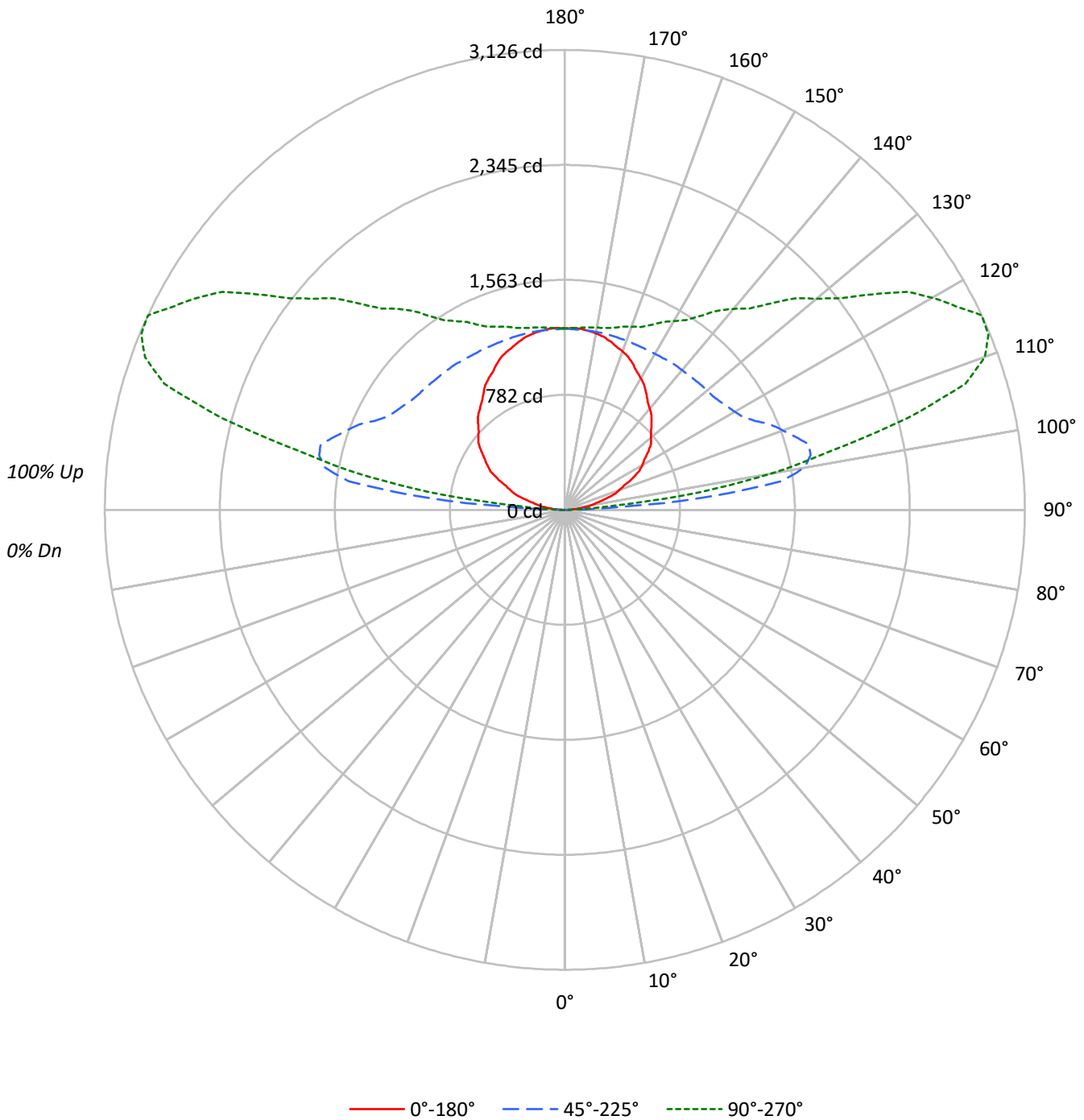
Lumens per Lamp: N/A
Luminaire Lumens: 7956.5 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
N/A
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Indirect

Input Watts (W): 61.6
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	
RC	80								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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
95°	4652	50029	17700
100°	4798	43921	38122
105°	5121	30614	42984
110°	5316	21282	40956
115°	5535	15612	34122
120°	5621	12299	26610
125°	5569	10329	20545
130°	5499	9059	16012
135°	5439	8143	12937
140°	5408	7469	10741
145°	5429	6941	9054
150°	5503	6523	7887
155°	5570	6217	7057
160°	5626	6004	6498
165°	5669	5856	6119
170°	5707	5751	5891
175°	5715	5686	5751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	0.0	0.0
90°-100°	576.6	7.2
100°-110°	1553.1	19.5
110°-120°	1629.9	20.5
120°-130°	1322.7	16.6
130°-140°	1037.3	13.0
140°-150°	796.4	10.0
150°-160°	572.6	7.2
160°-170°	349.8	4.4
170°-180°	118.0	1.5
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.0	0.0
90°-120°	3759.6	47.3
90°-150°	6916.0	86.9
90°-180°	7956.0	100.0
0°-180°	7956.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
90°	3	9	19	20	20	
95°	88	314	945	483	334	98
105°	287	447	1718	2570	2412	302
115°	507	621	1430	2764	3126	499
125°	692	795	1284	2171	2554	618
135°	834	930	1248	1751	1983	643
145°	964	1039	1232	1497	1608	605
155°	1094	1134	1222	1343	1386	504
165°	1187	1201	1226	1275	1281	335
175°	1234	1232	1228	1245	1242	117
180°	1232	1232	1232	1232	1232	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
90°	3.1	9.3	18.8	20.4	20.4
92.5°	38.3	135.3	267.5	128.8	89.5
95°	87.9	313.6	945.2	483.3	334.4
97.5°	140.4	359.0	1482.4	1238.4	933.9
100°	180.6	377.1	1653.3	1729.8	1435.0
102.5°	219.5	402.5	1709.8	2097.7	1855.8
105°	287.3	447.0	1717.6	2569.7	2411.6
107.5°	351.4	493.8	1644.5	2812.3	2853.1
110°	394.1	529.2	1577.9	2887.6	3036.5
112.5°	439.3	564.6	1513.8	2870.9	3115.6
115°	507.1	620.7	1430.3	2763.7	3126.0
117.5°	569.0	675.5	1365.6	2592.5	2996.0
120°	609.2	712.0	1333.0	2469.7	2884.2
122.5°	644.4	746.0	1309.1	2344.1	2757.3
125°	692.4	795.3	1284.3	2170.7	2554.5
127.5°	738.6	839.9	1268.6	2017.8	2360.4
130°	766.2	867.5	1262.3	1930.2	2231.1
132.5°	793.8	893.9	1256.0	1853.0	2129.3
135°	833.7	930.4	1248.2	1751.2	1983.0
137.5°	871.7	964.4	1244.1	1664.8	1855.2
140°	898.1	987.1	1240.3	1611.6	1783.6
142.5°	925.7	1008.6	1237.8	1562.0	1707.0
145°	964.0	1039.2	1232.5	1497.2	1607.7
147.5°	1005.5	1070.9	1227.2	1442.7	1529.5
150°	1033.1	1089.9	1224.6	1408.4	1480.6
152.5°	1058.2	1107.7	1223.4	1380.5	1439.1
155°	1094.3	1134.2	1221.5	1343.4	1386.4
157.5°	1126.0	1157.1	1221.8	1317.3	1346.2
160°	1146.1	1172.2	1223.1	1302.1	1323.6
162.5°	1163.7	1184.9	1224.3	1289.4	1304.7
165°	1187.0	1200.8	1226.2	1275.0	1281.2
167.5°	1205.8	1213.8	1227.8	1264.0	1266.4
170°	1218.4	1221.4	1227.8	1257.6	1257.6
172.5°	1225.9	1226.5	1229.0	1251.3	1251.3
175°	1234.1	1232.5	1227.8	1245.0	1241.9
177.5°	1237.5	1235.1	1228.7	1238.7	1236.3
180°	1232.5	1232.5	1232.5	1232.5	1232.5

(END OF REPORT)