

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: P519488

Luminaire Tested: **SQ4-WB-125U-075D-930-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519488  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-125U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

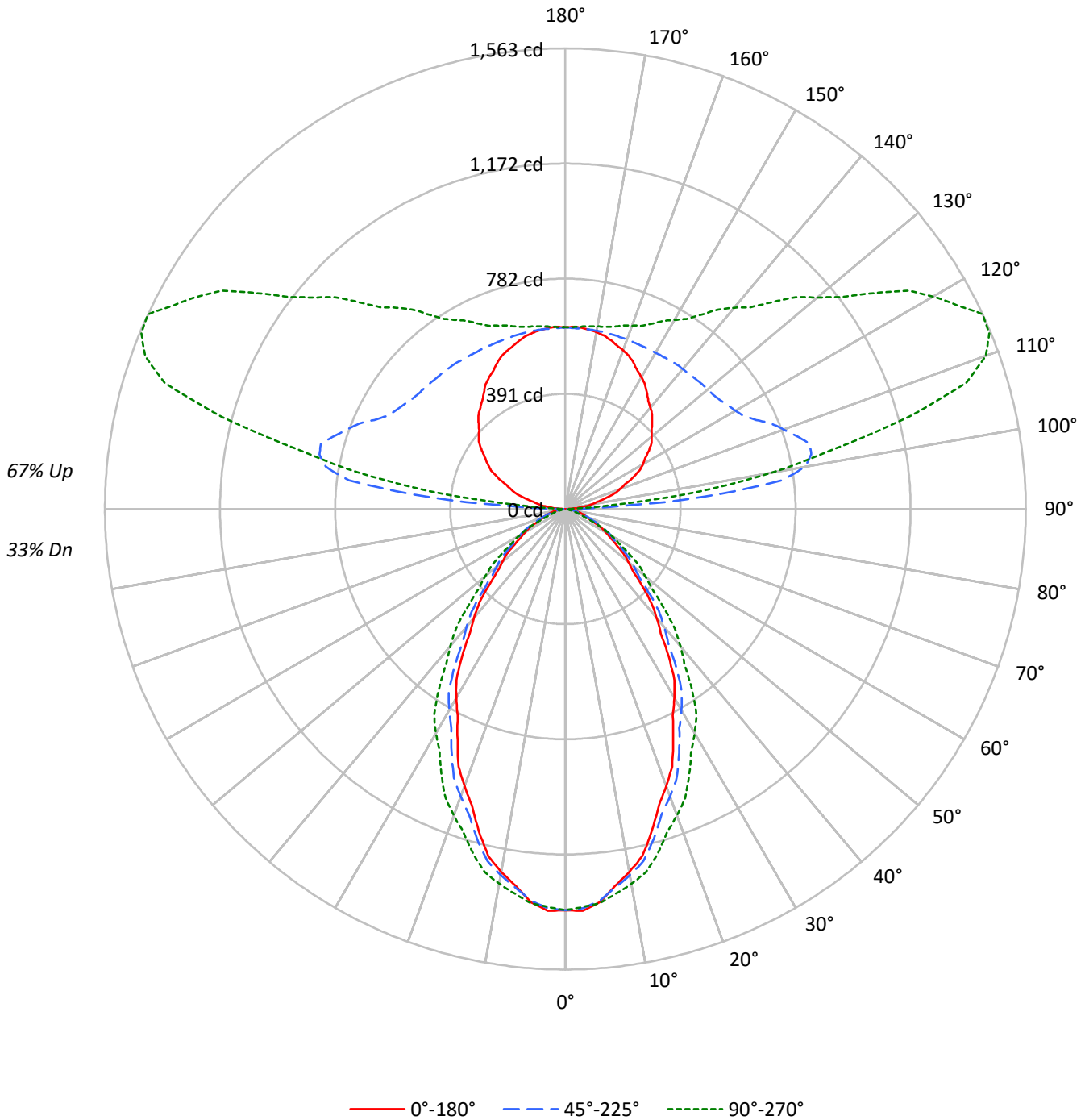
Lumens per Lamp: N/A  
Luminaire Lumens: 5963.8 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 55.7  
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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	33
1	95	91	87	84	85	82	79	77	66	64	62	51	50	49	37	36	36	30
2	87	80	75	70	78	73	68	64	59	55	53	46	44	42	34	32	31	26
3	80	71	65	59	72	65	59	54	52	48	45	41	38	36	31	29	28	23
4	73	63	56	51	66	58	52	47	47	43	39	37	34	32	28	26	25	21
5	68	57	49	44	61	52	45	41	42	38	34	34	31	28	26	24	22	18
6	62	51	44	38	56	47	40	36	39	34	30	31	27	25	23	21	20	17
7	58	46	39	34	52	43	36	32	35	30	27	28	25	22	22	19	18	15
8	54	42	35	30	49	39	33	28	32	27	24	26	23	20	20	18	16	14
9	50	39	32	27	45	36	29	25	30	25	22	24	21	18	19	16	15	13
10	47	36	29	24	43	33	27	23	27	23	20	22	19	17	17	15	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	12562	12562	12562
5°	12406	12361	12433
10°	11721	11827	12101
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9293	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4786	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2899	3242	3351
65°	2310	2727	2166
70°	2047	2128	1322
75°	1896	1725	809
80°	1748	1589	696
85°	1577	1450	572



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.9	2.1
10°-20°	324.9	5.4
20°-30°	420.8	7.1
30°-40°	412.0	6.9
40°-50°	315.4	5.3
50°-60°	210.2	3.5
60°-70°	114.7	1.9
70°-80°	47.8	0.8
80°-90°	15.0	0.3
90°-100°	288.3	4.8
100°-110°	776.6	13.0
110°-120°	815.0	13.7
120°-130°	661.3	11.1
130°-140°	518.7	8.7
140°-150°	398.2	6.7
150°-160°	286.3	4.8
160°-170°	174.9	2.9
170°-180°	59.0	1.0
0°-30°	870.5	14.6
0°-40°	1282.6	21.5
0°-60°	1808.1	30.3
0°-90°	1985.6	33.3
90°-120°	1879.8	31.5
90°-150°	3458.0	58.0
90°-180°	3978.0	66.7
0°-180°	5963.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1362	1362	1362	1362	1362	
5°	1340	1326	1335	1338	1342	125
15°	1133	1129	1159	1191	1211	316
25°	866	868	913	953	995	398
35°	612	615	656	700	750	380
45°	367	374	398	429	468	286
55°	211	220	232	241	261	191
65°	106	114	125	109	99	110
75°	53	53	48	33	23	57
85°	15	15	14	9	5	16
90°	2	5	9	10	10	4
95°	44	157	473	242	167	46
105°	144	224	859	1285	1206	151
115°	254	310	715	1382	1563	250
125°	346	398	642	1085	1277	309
135°	417	465	624	876	992	322
145°	482	520	616	749	804	302
155°	547	567	611	672	693	252
165°	594	600	613	638	641	167
175°	617	616	614	622	621	59
180°	616	616	616	616	616	

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CATALOG NUMBER: SQ4-WB-125U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1361.6	1361.6	1361.6	1361.6	1361.6
2.5°	1365.0	1352.8	1355.9	1355.8	1352.1
5°	1339.5	1326.1	1334.7	1337.8	1342.5
7.5°	1289.8	1279.6	1295.4	1307.1	1316.6
10°	1251.1	1242.3	1262.4	1279.5	1291.7
12.5°	1206.2	1198.8	1223.7	1246.6	1262.6
15°	1132.8	1128.7	1159.1	1190.6	1211.1
17.5°	1054.3	1052.3	1087.2	1124.0	1150.1
20°	1000.8	1000.2	1038.4	1076.7	1107.1
22.5°	946.7	948.0	988.2	1028.1	1062.7
25°	865.7	868.1	912.9	952.7	994.8
27.5°	790.8	791.9	838.2	880.3	925.1
30°	739.7	742.6	788.1	831.5	878.3
32.5°	688.5	691.9	736.4	781.4	829.0
35°	611.8	614.7	656.0	700.2	749.8
37.5°	532.7	536.7	573.3	615.1	663.9
40°	481.6	487.4	519.8	559.1	607.0
42.5°	432.3	439.6	469.6	506.9	550.1
45°	366.8	373.9	398.5	428.7	467.8
47.5°	310.4	318.5	337.4	363.4	396.8
50°	278.4	286.0	303.5	322.8	354.3
52.5°	250.2	257.8	273.4	288.2	315.1
55°	210.9	219.7	232.4	241.2	261.1
57.5°	178.6	187.1	197.2	201.1	213.2
60°	157.1	166.5	175.7	175.2	181.6
62.5°	137.5	145.5	154.6	148.3	148.6
65°	105.8	114.5	124.9	109.1	99.2
67.5°	85.4	87.3	98.0	76.1	64.3
70°	75.9	75.9	78.9	58.9	49.0
72.5°	66.8	66.8	64.0	47.9	37.5
75°	53.2	53.2	48.4	33.2	22.7
77.5°	41.0	40.5	37.0	24.8	16.5
80°	32.9	32.9	29.9	19.6	13.1
82.5°	25.7	25.7	23.2	15.3	9.8
85°	14.9	14.9	13.7	8.9	5.4
87.5°	5.6	6.2	6.7	4.9	4.4
90°	1.6	4.6	9.4	10.2	10.2
92.5°	19.2	67.7	133.8	64.4	44.7
95°	44.0	156.8	472.6	241.7	167.2
97.5°	70.2	179.5	741.2	619.2	466.9
100°	90.3	188.5	826.6	864.9	717.5
102.5°	109.7	201.2	854.9	1048.9	927.9
105°	143.7	223.5	858.8	1284.9	1205.8
107.5°	175.7	246.9	822.2	1406.1	1426.6
110°	197.0	264.6	789.0	1443.8	1518.2



TEST NUMBER: P519488

CATALOG NUMBER: SQ4-WB-125U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	219.7	282.3	756.9	1435.5	1557.8
115°	253.6	310.4	715.2	1381.8	1563.0
117.5°	284.5	337.8	682.8	1296.3	1498.0
120°	304.6	356.0	666.5	1234.8	1442.1
122.5°	322.2	373.0	654.6	1172.0	1378.7
125°	346.2	397.6	642.2	1085.3	1277.2
127.5°	369.3	419.9	634.3	1008.9	1180.2
130°	383.1	433.8	631.2	965.1	1115.5
132.5°	396.9	447.0	628.0	926.5	1064.7
135°	416.9	465.2	624.1	875.6	991.5
137.5°	435.8	482.2	622.1	832.4	927.6
140°	449.0	493.6	620.2	805.8	891.8
142.5°	462.9	504.3	618.9	781.0	853.5
145°	482.0	519.6	616.2	748.6	803.9
147.5°	502.7	535.4	613.6	721.3	764.8
150°	516.5	544.9	612.3	704.2	740.3
152.5°	529.1	553.8	611.7	690.2	719.6
155°	547.2	567.1	610.8	671.7	693.2
157.5°	563.0	578.5	610.9	658.7	673.1
160°	573.1	586.1	611.5	651.0	661.8
162.5°	581.9	592.5	612.2	644.7	652.4
165°	593.5	600.4	613.1	637.5	640.6
167.5°	602.9	606.9	613.9	632.0	633.2
170°	609.2	610.7	613.9	628.8	628.8
172.5°	613.0	613.3	614.5	625.7	625.7
175°	617.0	616.3	613.9	622.5	621.0
177.5°	618.8	617.5	614.4	619.4	618.1
180°	616.2	616.2	616.2	616.2	616.2

(END OF REPORT)