

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: P519545

Luminaire Tested: **SQ4-WB-125U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519545  
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-125D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

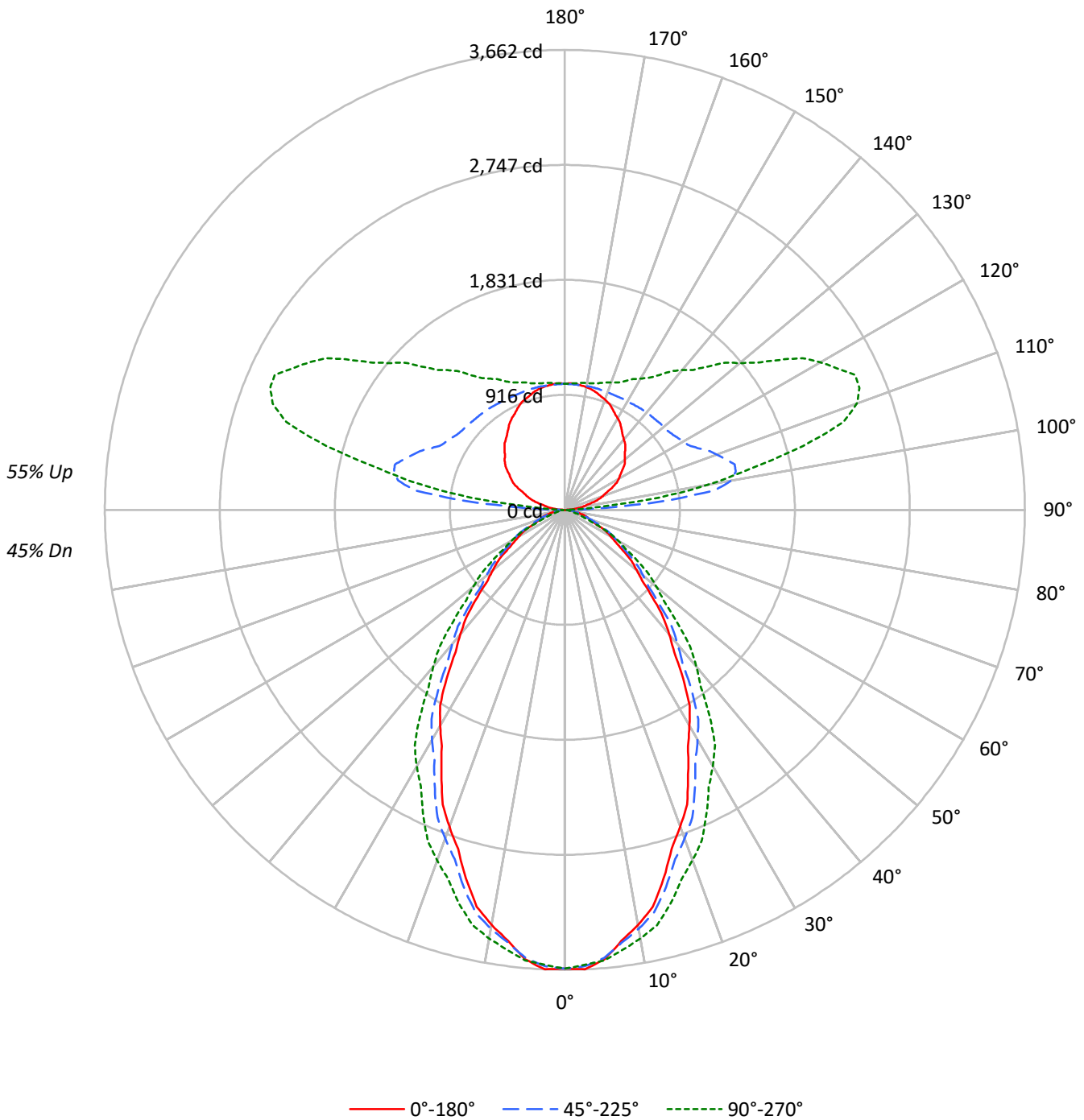
Lumens per Lamp: N/A  
Luminaire Lumens: 11808.1 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 117.2  
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	50	30	10	0	
RCR																						
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45				
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40				
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35				
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31				
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28				
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25				
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23				
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20				
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19				
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17				
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16				

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

	0°	45°	90°
0°	22468	22468	22468
5°	22188	22109	22237
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14093	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9300	10917
50°	7147	7792	9095
55°	6067	6686	7512
60°	5186	5797	5995
65°	4129	4876	3873
70°	3661	3805	2363
75°	3391	3085	1447
80°	3124	2837	1250
85°	2830	2604	1016



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	335.1	2.8
10°-20°	871.5	7.4
20°-30°	1128.8	9.6
30°-40°	1105.4	9.4
40°-50°	846.1	7.2
50°-60°	563.8	4.8
60°-70°	307.7	2.6
70°-80°	128.2	1.1
80°-90°	38.7	0.3
90°-100°	469.8	4.0
100°-110°	1265.4	10.7
110°-120°	1328.0	11.2
120°-130°	1077.7	9.1
130°-140°	845.2	7.2
140°-150°	648.9	5.5
150°-160°	466.6	4.0
160°-170°	285.0	2.4
170°-180°	96.1	0.8
0°-30°	2335.4	19.8
0°-40°	3440.8	29.1
0°-60°	4850.8	41.1
0°-90°	5325.3	45.1
90°-120°	3063.3	25.9
90°-150°	5635.0	47.7
90°-180°	6483.0	54.9
0°-180°	11808.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3653	3653	3653	3653	3653	
5°	3594	3558	3581	3589	3602	334
15°	3039	3028	3110	3194	3249	849
25°	2322	2329	2449	2556	2669	1068
35°	1641	1649	1760	1878	2012	1020
45°	984	1003	1069	1150	1255	767
55°	566	589	624	647	700	513
65°	284	307	335	293	266	295
75°	143	143	130	89	61	152
85°	40	40	37	24	14	44
90°	3	8	15	17	17	7
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3652.9	3652.9	3652.9	3652.9	3652.9
2.5°	3661.9	3629.3	3637.5	3637.3	3627.3
5°	3593.6	3557.6	3580.8	3589.1	3601.6
7.5°	3460.3	3433.0	3475.3	3506.7	3532.1
10°	3356.4	3332.9	3386.8	3432.5	3465.4
12.5°	3235.9	3216.1	3283.0	3344.2	3387.2
15°	3039.0	3028.1	3109.6	3194.1	3249.0
17.5°	2828.4	2823.1	2916.6	3015.3	3085.5
20°	2684.8	2683.2	2785.8	2888.6	2970.1
22.5°	2539.9	2543.3	2651.1	2758.1	2850.9
25°	2322.5	2328.8	2449.2	2555.9	2668.8
27.5°	2121.5	2124.4	2248.8	2361.5	2481.9
30°	1984.3	1992.2	2114.2	2230.8	2356.2
32.5°	1847.1	1856.2	1975.7	2096.2	2224.1
35°	1641.3	1649.2	1759.9	1878.4	2011.6
37.5°	1429.1	1439.8	1538.1	1650.1	1781.1
40°	1291.9	1307.6	1394.5	1500.0	1628.5
42.5°	1159.8	1179.3	1259.8	1359.9	1475.9
45°	984.2	1003.0	1069.1	1150.0	1255.0
47.5°	832.8	854.5	905.3	975.0	1064.6
50°	746.9	767.3	814.3	865.9	950.5
52.5°	671.3	691.7	733.5	773.3	845.3
55°	565.8	589.3	623.5	647.2	700.5
57.5°	479.3	501.8	528.9	539.6	571.9
60°	421.6	446.6	471.2	470.0	487.3
62.5°	369.0	390.3	414.8	397.9	398.8
65°	283.7	307.2	335.0	292.7	266.1
67.5°	229.2	234.2	262.9	204.1	172.5
70°	203.6	203.6	211.6	158.1	131.4
72.5°	179.2	179.2	171.8	128.6	100.7
75°	142.7	142.7	129.8	89.1	60.9
77.5°	110.0	108.7	99.4	66.5	44.2
80°	88.2	88.2	80.1	52.5	35.3
82.5°	68.9	68.9	62.2	41.0	26.3
85°	40.1	40.1	36.9	23.8	14.4
87.5°	14.6	15.6	15.9	11.0	9.7
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)