

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: P519536

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

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519536  
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-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

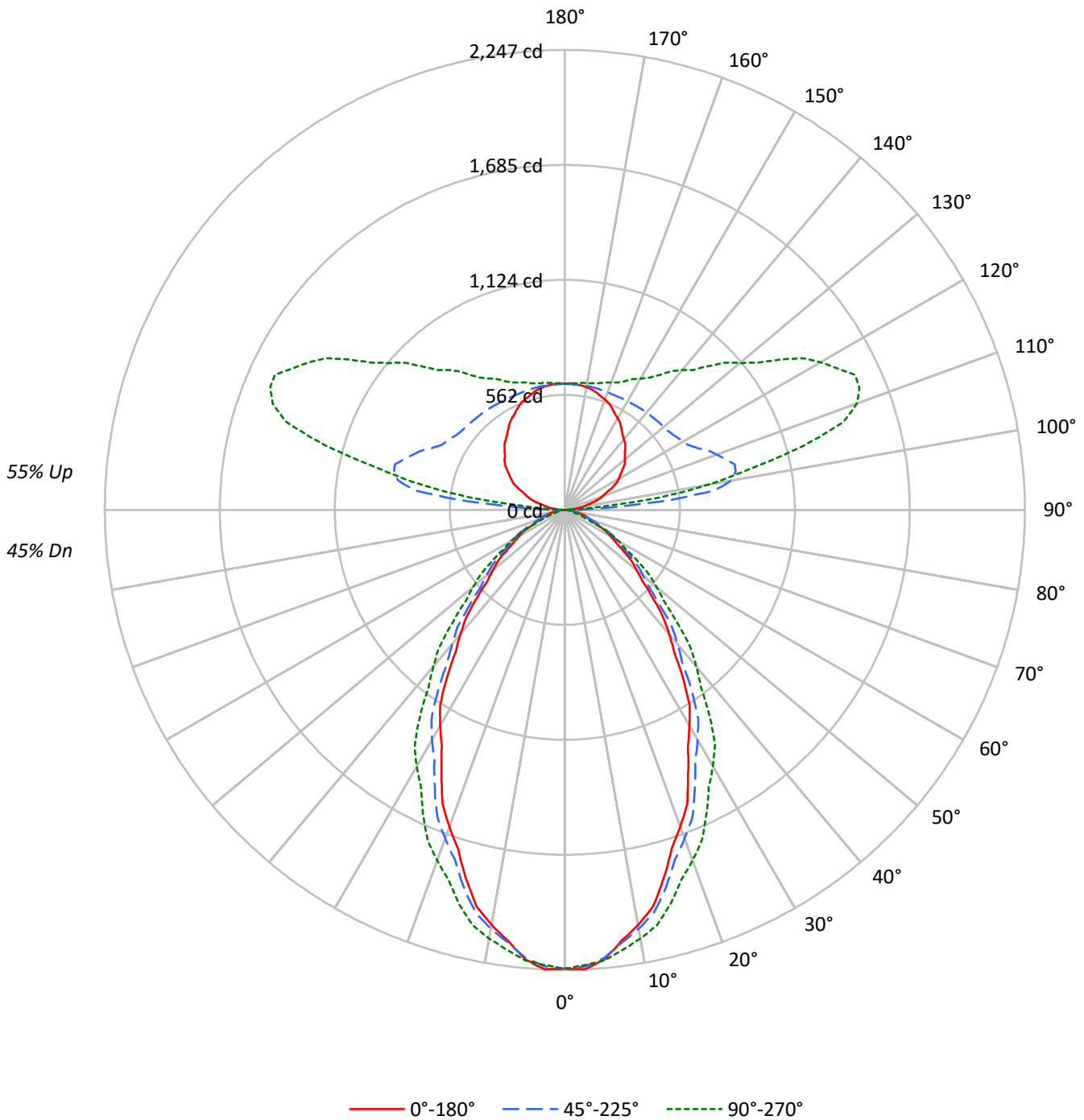
Lumens per Lamp: N/A  
Luminaire Lumens: 7246.2 lumens  
Efficiency: N/A  
Efficacy: 96.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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°	20682	20682	20682
5°	20424	20351	20470
10°	19296	19472	19923
15°	17814	18226	19044
20°	16177	16784	17896
25°	14510	15301	16672
30°	12973	13822	15404
35°	11344	12164	13903
40°	9548	10307	12037
45°	7880	8561	10049
50°	6580	7172	8372
55°	5585	6154	6914
60°	4774	5336	5517
65°	3801	4488	3565
70°	3369	3501	2177
75°	3119	2841	1333
80°	2874	2614	1148
85°	2604	2392	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.6	2.8
10°-20°	534.8	7.4
20°-30°	692.7	9.6
30°-40°	678.4	9.4
40°-50°	519.3	7.2
50°-60°	346.0	4.8
60°-70°	188.8	2.6
70°-80°	78.7	1.1
80°-90°	23.7	0.3
90°-100°	288.3	4.0
100°-110°	776.6	10.7
110°-120°	815.0	11.2
120°-130°	661.3	9.1
130°-140°	518.7	7.2
140°-150°	398.2	5.5
150°-160°	286.3	4.0
160°-170°	174.9	2.4
170°-180°	59.0	0.8
0°-30°	1433.2	19.8
0°-40°	2111.5	29.1
0°-60°	2976.8	41.1
0°-90°	3268.0	45.1
90°-120°	1879.8	25.9
90°-150°	3458.0	47.7
90°-180°	3978.0	54.9
0°-180°	7246.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2242	2242	2242	2242	2242	
5°	2205	2183	2197	2202	2210	205
15°	1865	1858	1908	1960	1994	521
25°	1425	1429	1503	1568	1638	655
35°	1007	1012	1080	1153	1234	626
45°	604	616	656	706	770	471
55°	347	362	383	397	430	315
65°	174	188	206	180	163	181
75°	88	88	80	55	37	93
85°	25	25	23	15	9	27
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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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2241.7	2241.7	2241.7	2241.7	2241.7
2.5°	2247.2	2227.2	2232.2	2232.1	2225.9
5°	2205.3	2183.2	2197.4	2202.5	2210.2
7.5°	2123.4	2106.7	2132.7	2151.9	2167.5
10°	2059.7	2045.3	2078.4	2106.4	2126.6
12.5°	1985.7	1973.6	2014.7	2052.2	2078.6
15°	1865.0	1858.2	1908.2	1960.1	1993.8
17.5°	1735.7	1732.4	1789.8	1850.4	1893.5
20°	1647.6	1646.6	1709.5	1772.6	1822.7
22.5°	1558.7	1560.8	1626.9	1692.5	1749.5
25°	1425.3	1429.1	1503.0	1568.5	1637.7
27.5°	1301.9	1303.7	1380.0	1449.2	1523.0
30°	1217.7	1222.5	1297.4	1369.0	1445.9
32.5°	1133.5	1139.1	1212.4	1286.4	1364.9
35°	1007.2	1012.0	1080.0	1152.7	1234.4
37.5°	877.0	883.5	943.9	1012.6	1093.0
40°	792.8	802.4	855.8	920.5	999.4
42.5°	711.8	723.7	773.1	834.6	905.7
45°	603.9	615.5	656.1	705.7	770.2
47.5°	511.1	524.4	555.6	598.3	653.3
50°	458.4	470.9	499.7	531.4	583.3
52.5°	411.9	424.4	450.1	474.5	518.8
55°	347.2	361.6	382.6	397.1	429.8
57.5°	294.1	308.0	324.6	331.1	351.0
60°	258.7	274.1	289.2	288.4	299.0
62.5°	226.4	239.5	254.6	244.1	244.7
65°	174.1	188.5	205.6	179.6	163.3
67.5°	140.7	143.7	161.3	125.3	105.8
70°	124.9	124.9	129.8	97.0	80.7
72.5°	110.0	110.0	105.4	78.9	61.8
75°	87.5	87.5	79.7	54.7	37.4
77.5°	67.5	66.7	61.0	40.8	27.1
80°	54.1	54.1	49.2	32.2	21.6
82.5°	42.3	42.3	38.2	25.2	16.1
85°	24.6	24.6	22.6	14.6	8.9
87.5°	9.0	9.6	9.8	6.7	6.0
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



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**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)