

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: P519249

Luminaire Tested: **SQ4-WB-075U-125D-930-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519249  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-125D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

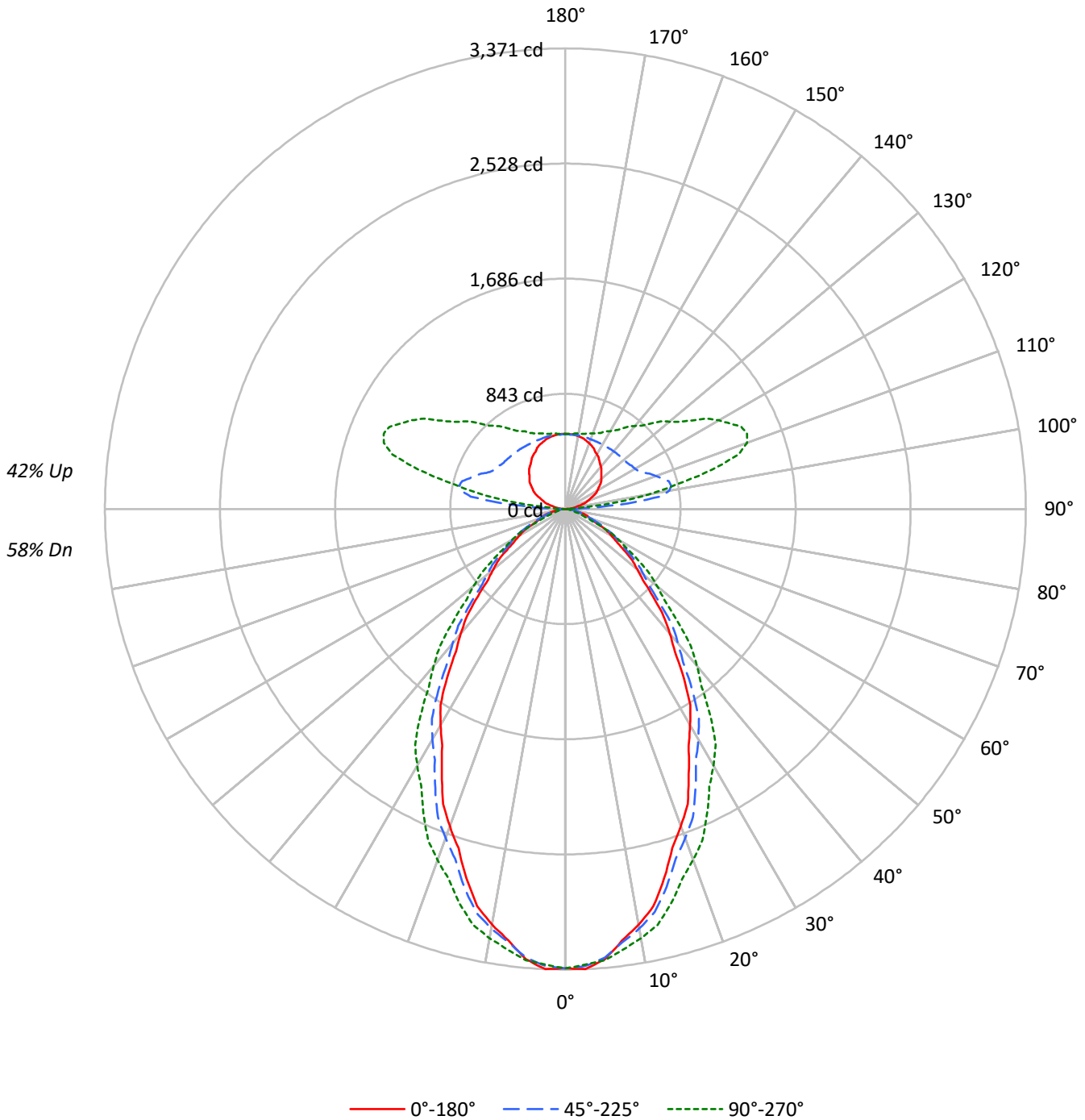
Lumens per Lamp: N/A  
Luminaire Lumens: 8474.7 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 97.3  
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									
RC	80									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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58				58															
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56				51																
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49				45																
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44				40																
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39				36																
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35				32																
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31				29																
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29				26																
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26				24																
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24				22																
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22				20																

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

	0°	45°	90°
0°	20682	20682	20682
5°	20424	20351	20470
10°	19297	19472	19923
15°	17813	18226	19044
20°	16177	16785	17896
25°	14509	15301	16672
30°	12973	13822	15404
35°	11344	12164	13904
40°	9548	10306	12036
45°	7880	8560	10049
50°	6580	7172	8372
55°	5585	6154	6915
60°	4773	5336	5517
65°	3802	4488	3564
70°	3370	3503	2176
75°	3120	2840	1333
80°	2873	2614	1151
85°	2604	2392	939



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.4	3.6
10°-20°	802.2	9.5
20°-30°	1039.1	12.3
30°-40°	1017.5	12.0
40°-50°	778.9	9.2
50°-60°	519.0	6.1
60°-70°	283.2	3.3
70°-80°	118.0	1.4
80°-90°	34.8	0.4
90°-100°	258.7	3.1
100°-110°	711.8	8.4
110°-120°	734.7	8.7
120°-130°	588.6	6.9
130°-140°	462.3	5.5
140°-150°	354.3	4.2
150°-160°	254.7	3.0
160°-170°	155.8	1.8
170°-180°	52.5	0.6
0°-30°	2149.7	25.4
0°-40°	3167.3	37.4
0°-60°	4465.1	52.7
0°-90°	4901.2	57.8
90°-120°	1705.2	20.1
90°-150°	3110.5	36.7
90°-180°	3573.0	42.2
0°-180°	8474.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3362	3362	3362	3362	3362	
5°	3308	3275	3296	3304	3315	308
15°	2797	2787	2862	2940	2991	781
25°	2138	2144	2254	2353	2457	983
35°	1511	1518	1620	1729	1852	939
45°	906	923	984	1059	1155	706
55°	521	542	574	596	645	472
65°	261	283	308	269	245	271
75°	131	131	120	82	56	140
85°	37	37	34	22	13	40
90°	1	5	8	10	10	4
95°	38	141	458	196	125	41
105°	127	196	784	1194	1115	134
115°	225	274	629	1253	1422	222
125°	310	354	571	965	1131	277
135°	375	416	554	781	884	289
145°	433	463	546	665	717	272
155°	490	506	543	598	615	225
165°	530	537	545	567	571	149
175°	548	550	546	553	552	52
180°	548	548	548	548	548	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3362.5	3362.5	3362.5	3362.5	3362.5
2.5°	3370.8	3340.8	3348.4	3348.1	3338.9
5°	3307.9	3274.7	3296.1	3303.8	3315.3
7.5°	3185.2	3160.1	3199.0	3227.9	3251.3
10°	3089.6	3067.9	3117.6	3159.6	3189.9
12.5°	2978.6	2960.4	3022.0	3078.4	3117.9
15°	2797.4	2787.3	2862.3	2940.2	2990.7
17.5°	2603.6	2598.6	2684.7	2775.6	2840.2
20°	2471.4	2469.9	2564.3	2659.0	2734.0
22.5°	2338.0	2341.1	2440.4	2538.8	2624.2
25°	2137.9	2143.7	2254.5	2352.7	2456.6
27.5°	1952.9	1955.5	2070.0	2173.8	2284.6
30°	1826.6	1833.8	1946.1	2053.5	2168.9
32.5°	1700.3	1708.7	1818.6	1929.6	2047.3
35°	1510.8	1518.1	1620.0	1729.0	1851.7
37.5°	1315.5	1325.3	1415.8	1518.9	1639.5
40°	1189.2	1203.6	1283.6	1380.7	1499.0
42.5°	1067.6	1085.5	1159.7	1251.8	1358.6
45°	905.9	923.2	984.1	1058.6	1155.3
47.5°	766.6	786.5	833.3	897.5	980.0
50°	687.6	706.3	749.5	797.0	874.9
52.5°	617.9	636.7	675.2	711.8	778.1
55°	520.8	542.5	573.9	595.7	644.8
57.5°	441.2	461.9	486.9	496.7	526.4
60°	388.0	411.1	433.8	432.7	448.5
62.5°	339.6	359.3	381.8	366.2	367.1
65°	261.2	282.8	308.4	269.4	244.9
67.5°	211.0	215.6	242.0	187.9	158.8
70°	187.4	187.4	194.8	145.5	121.0
72.5°	165.0	165.0	158.2	118.3	92.7
75°	131.3	131.3	119.5	82.0	56.1
77.5°	101.2	100.1	91.5	61.2	40.7
80°	81.1	81.1	73.8	48.3	32.5
82.5°	63.4	63.4	57.2	37.8	24.2
85°	36.9	36.9	33.9	21.9	13.3
87.5°	13.2	13.9	13.4	9.2	8.0
90°	1.2	4.6	8.2	10.5	10.5
92.5°	16.1	68.8	119.3	45.8	37.6
95°	38.5	141.2	457.5	195.6	124.9
97.5°	62.8	156.6	698.2	537.9	379.5
100°	80.5	166.1	773.8	781.0	637.2
102.5°	97.3	177.4	793.4	969.0	837.0
105°	127.2	195.7	784.3	1194.5	1114.6
107.5°	155.7	218.2	739.7	1304.9	1328.6
110°	176.2	233.3	706.1	1332.4	1414.5

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	194.9	250.1	672.5	1314.7	1439.7
115°	225.2	274.3	629.1	1252.6	1421.5
117.5°	254.2	299.4	601.5	1165.6	1356.6
120°	271.9	315.3	589.4	1100.4	1297.8
122.5°	287.8	331.2	581.0	1043.2	1230.6
125°	310.4	353.8	570.7	965.4	1130.9
127.5°	331.9	373.2	563.9	900.6	1045.7
130°	343.1	385.3	560.2	862.0	994.4
132.5°	356.2	398.4	557.4	828.1	947.7
135°	374.6	415.7	554.4	780.8	883.5
137.5°	391.9	430.0	551.8	742.6	827.2
140°	405.0	440.4	550.9	717.2	793.6
142.5°	416.2	448.8	549.0	694.5	760.0
145°	433.0	462.7	546.2	665.2	716.6
147.5°	451.0	476.5	544.8	639.3	680.4
150°	462.2	485.0	543.9	625.1	657.1
152.5°	472.4	493.4	542.9	612.9	639.3
155°	490.2	506.2	542.7	597.9	615.1
157.5°	503.0	516.0	542.7	585.7	597.6
160°	512.4	522.6	542.7	579.1	588.2
162.5°	519.8	528.3	543.6	573.4	580.7
165°	529.9	536.7	545.0	567.3	570.7
167.5°	536.9	542.1	546.2	562.1	563.0
170°	541.5	545.0	546.2	560.2	560.2
172.5°	545.3	546.9	546.2	557.4	556.5
175°	548.5	549.7	546.2	553.2	552.0
177.5°	549.5	549.5	545.7	551.3	549.5
180°	548.5	548.5	548.5	548.5	548.5

(END OF REPORT)