

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: P519242

Luminaire Tested: **SQ4-WB-075U-125D-835-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519242  
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-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 750 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

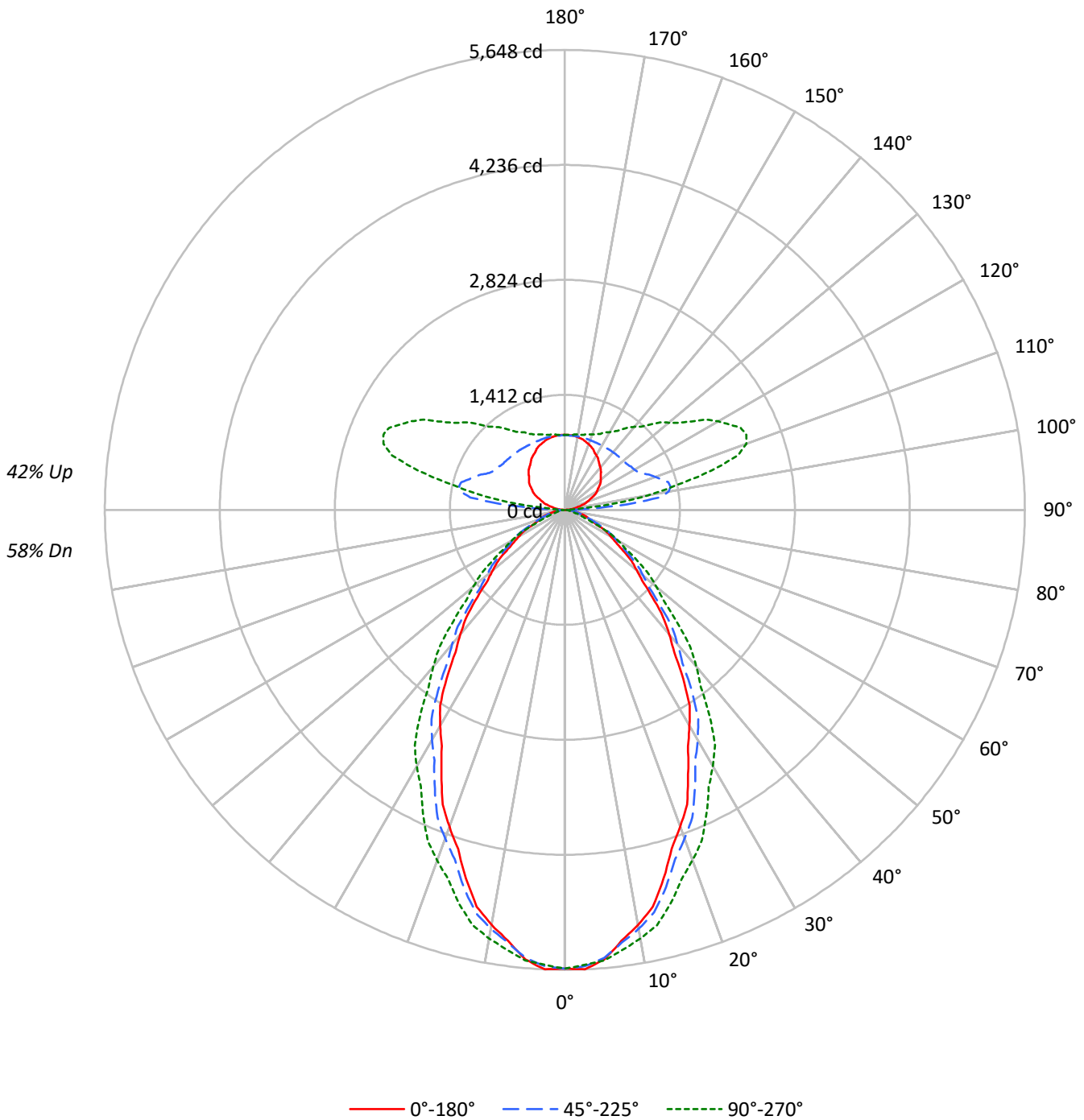
Lumens per Lamp: N/A  
Luminaire Lumens: 14199.8 lumens  
Efficiency: N/A  
Efficacy: 111.2 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 127.7  
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	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°	25991	25991	25991
5°	25666	25575	25724
10°	24249	24469	25036
15°	22385	22905	23932
20°	20328	21093	22488
25°	18233	19227	20951
30°	16303	17369	19358
35°	14256	15287	17472
40°	11999	12952	15125
45°	9903	10757	12628
50°	8268	9013	10521
55°	7019	7735	8689
60°	5999	6706	6933
65°	4777	5640	4480
70°	4235	4401	2734
75°	3921	3568	1674
80°	3613	3284	1445
85°	3271	3012	1175



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.8	3.6
10°-20°	1344.2	9.5
20°-30°	1741.1	12.3
30°-40°	1704.9	12.0
40°-50°	1305.0	9.2
50°-60°	869.6	6.1
60°-70°	474.5	3.3
70°-80°	197.7	1.4
80°-90°	58.3	0.4
90°-100°	433.5	3.1
100°-110°	1192.6	8.4
110°-120°	1231.0	8.7
120°-130°	986.3	6.9
130°-140°	774.7	5.5
140°-150°	593.7	4.2
150°-160°	426.8	3.0
160°-170°	261.0	1.8
170°-180°	88.0	0.6
0°-30°	3602.0	25.4
0°-40°	5307.0	37.4
0°-60°	7481.6	52.7
0°-90°	8212.3	57.8
90°-120°	2857.1	20.1
90°-150°	5211.7	36.7
90°-180°	5988.0	42.2
0°-180°	14199.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5634	5634	5634	5634	5634	
5°	5543	5487	5523	5536	5555	516
15°	4687	4670	4796	4926	5011	1309
25°	3582	3592	3778	3942	4116	1647
35°	2532	2544	2714	2897	3103	1574
45°	1518	1547	1649	1774	1936	1184
55°	873	909	962	998	1080	791
65°	438	474	517	452	410	455
75°	220	220	200	138	94	235
85°	62	62	57	37	22	67
90°	2	8	14	18	18	7
95°	64	237	767	328	209	68
105°	213	328	1314	2001	1868	225
115°	377	460	1054	2099	2382	372
125°	520	593	956	1618	1895	464
135°	628	697	929	1308	1480	484
145°	726	775	915	1115	1201	455
155°	821	848	909	1002	1031	377
165°	888	899	913	950	956	250
175°	919	921	915	927	925	87
180°	919	919	919	919	919	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5634.1	5634.1	5634.1	5634.1	5634.1
2.5°	5647.9	5597.7	5610.4	5610.0	5594.5
5°	5542.6	5487.0	5522.8	5535.6	5555.0
7.5°	5336.9	5294.9	5360.2	5408.5	5447.7
10°	5176.7	5140.5	5223.7	5294.1	5344.8
12.5°	4990.8	4960.4	5063.5	5158.0	5224.2
15°	4687.2	4670.3	4796.0	4926.5	5011.1
17.5°	4362.4	4354.2	4498.4	4650.6	4758.9
20°	4140.9	4138.5	4296.6	4455.2	4580.9
22.5°	3917.4	3922.7	4089.0	4253.9	4397.0
25°	3582.2	3591.9	3777.5	3942.1	4116.2
27.5°	3272.2	3276.5	3468.5	3642.3	3827.9
30°	3060.6	3072.6	3260.8	3440.7	3634.1
32.5°	2848.9	2863.0	3047.2	3233.1	3430.4
35°	2531.5	2543.6	2714.5	2897.1	3102.6
37.5°	2204.2	2220.6	2372.3	2545.0	2747.1
40°	1992.6	2016.7	2150.8	2313.5	2511.7
42.5°	1788.9	1818.8	1943.1	2097.5	2276.4
45°	1517.9	1546.9	1648.9	1773.8	1935.7
47.5°	1284.5	1317.9	1396.3	1503.8	1642.0
50°	1152.0	1183.5	1255.9	1335.5	1466.0
52.5°	1035.3	1066.8	1131.3	1192.6	1303.8
55°	872.7	908.9	961.7	998.2	1080.3
57.5°	739.2	774.0	815.8	832.3	882.1
60°	650.2	688.9	726.8	725.0	751.5
62.5°	569.1	602.0	639.8	613.6	615.1
65°	437.6	473.8	516.7	451.5	410.4
67.5°	353.5	361.3	405.4	314.8	266.0
70°	314.0	314.0	326.3	243.8	202.7
72.5°	276.4	276.4	265.0	198.3	155.3
75°	220.0	220.0	200.2	137.5	93.9
77.5°	169.6	167.7	153.3	102.6	68.2
80°	136.0	136.0	123.6	81.0	54.4
82.5°	106.3	106.3	95.9	63.3	40.5
85°	61.8	61.8	56.9	36.8	22.2
87.5°	22.1	23.3	22.5	15.3	13.4
90°	2.0	7.7	13.7	17.6	17.6
92.5°	27.0	115.3	199.9	76.7	63.0
95°	64.5	236.6	766.6	327.8	209.2
97.5°	105.2	262.4	1169.8	901.3	635.9
100°	134.9	278.3	1296.5	1308.6	1067.7
102.5°	163.1	297.3	1329.4	1623.5	1402.5
105°	213.2	327.9	1314.1	2001.4	1867.5
107.5°	260.9	365.6	1239.4	2186.4	2226.2
110°	295.3	390.9	1183.1	2232.4	2370.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	326.6	419.1	1126.8	2202.8	2412.3
115°	377.4	459.6	1054.0	2098.8	2381.8
117.5°	425.9	501.6	1007.9	1953.0	2273.1
120°	455.6	528.3	987.5	1843.8	2174.6
122.5°	482.2	554.9	973.5	1747.9	2061.9
125°	520.2	592.8	956.3	1617.7	1894.9
127.5°	556.2	625.4	944.9	1508.9	1752.2
130°	574.9	645.7	938.7	1444.3	1666.1
132.5°	596.8	667.6	934.0	1387.5	1587.9
135°	627.7	696.6	928.9	1308.3	1480.3
137.5°	656.7	720.5	924.6	1244.2	1386.1
140°	678.6	737.8	923.0	1201.7	1329.8
142.5°	697.3	752.0	919.9	1163.7	1273.4
145°	725.5	775.2	915.2	1114.7	1200.7
147.5°	755.6	798.4	912.8	1071.2	1140.1
150°	774.4	812.6	911.3	1047.4	1101.0
152.5°	791.6	826.8	909.7	1026.9	1071.2
155°	821.3	848.1	909.3	1001.9	1030.6
157.5°	842.8	864.6	909.3	981.3	1001.2
160°	858.5	875.7	909.3	970.3	985.6
162.5°	871.0	885.1	910.9	960.8	973.1
165°	887.8	899.3	913.2	950.5	956.3
167.5°	899.5	908.3	915.2	941.8	943.3
170°	907.4	913.1	915.2	938.7	938.7
172.5°	913.6	916.3	915.2	933.9	932.4
175°	919.1	921.0	915.2	926.9	925.0
177.5°	920.7	920.7	914.4	923.7	920.7
180°	919.1	919.1	919.1	919.1	919.1

(END OF REPORT)