

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: P519258

Luminaire Tested: **SQ4-WB-075U-125D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519258  
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-940-1D-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: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

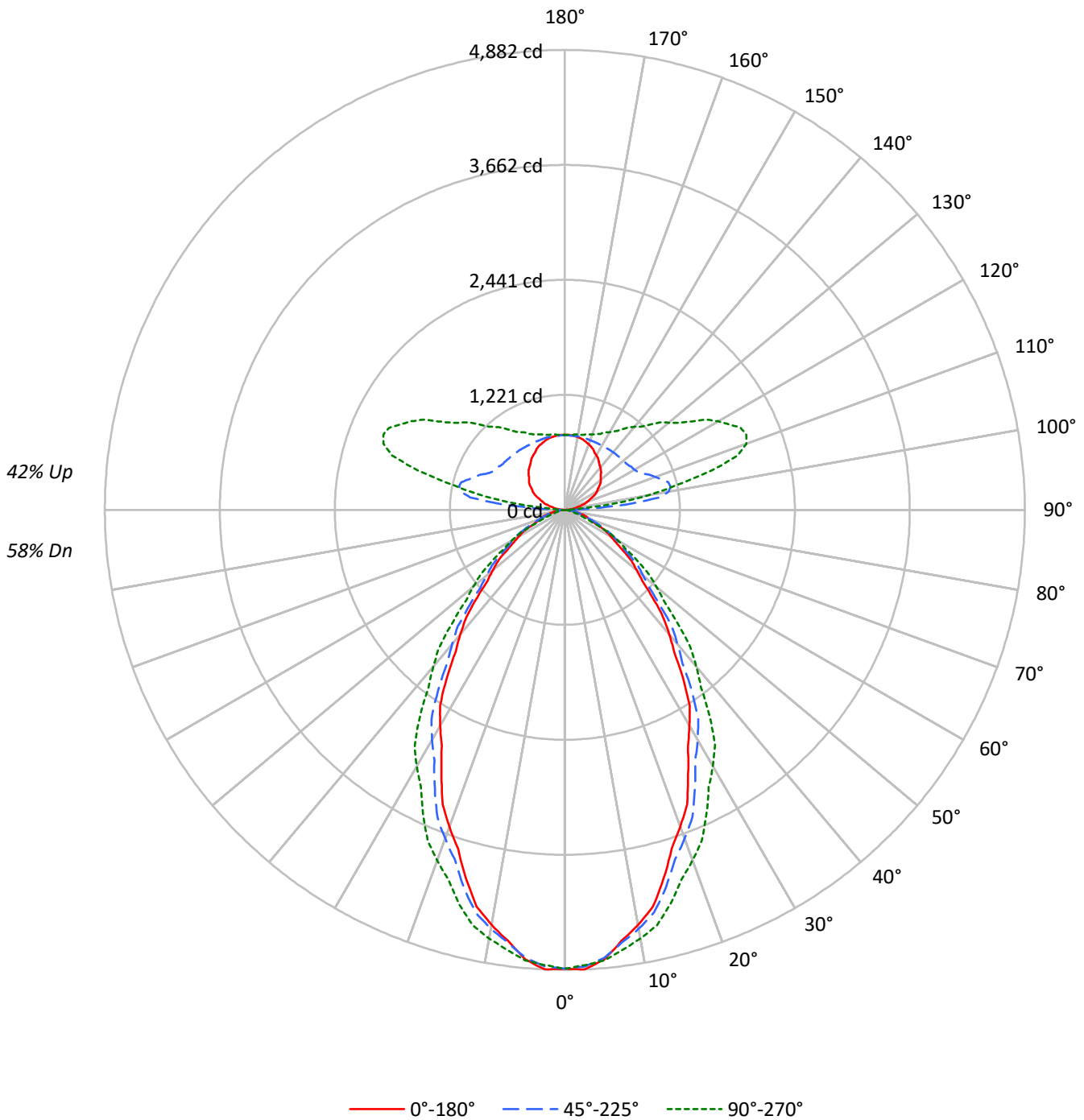
Lumens per Lamp: N/A  
Luminaire Lumens: 12275.5 lumens  
Efficiency: N/A  
Efficacy: 96.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

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	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				51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45				45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40				40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36				36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32				32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29				29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26				26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24				24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22				22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20				20

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

	0°	45°	90°
0°	22469	22469	22469
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14094	15016	16735
35°	12324	13215	15104
40°	10373	11197	13076
45°	8561	9300	10917
50°	7147	7792	9095
55°	6067	6687	7511
60°	5186	5797	5994
65°	4129	4876	3873
70°	3661	3805	2363
75°	3390	3085	1447
80°	3121	2840	1249
85°	2826	2604	1016



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	446.7	3.6
10°-20°	1162.0	9.5
20°-30°	1505.1	12.3
30°-40°	1473.9	12.0
40°-50°	1128.2	9.2
50°-60°	751.8	6.1
60°-70°	410.2	3.3
70°-80°	170.9	1.4
80°-90°	50.4	0.4
90°-100°	374.7	3.1
100°-110°	1031.0	8.4
110°-120°	1064.2	8.7
120°-130°	852.6	6.9
130°-140°	669.7	5.5
140°-150°	513.2	4.2
150°-160°	369.0	3.0
160°-170°	225.6	1.8
170°-180°	76.1	0.6
0°-30°	3113.9	25.4
0°-40°	4587.8	37.4
0°-60°	6467.7	52.7
0°-90°	7099.3	57.8
90°-120°	2470.0	20.1
90°-150°	4505.5	36.7
90°-180°	5176.0	42.2
0°-180°	12275.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4871	4871	4871	4871	4871	
5°	4792	4743	4774	4786	4802	446
15°	4052	4037	4146	4259	4332	1132
25°	3097	3105	3266	3408	3558	1424
35°	2188	2199	2347	2504	2682	1361
45°	1312	1337	1426	1533	1673	1023
55°	754	786	831	863	934	684
65°	378	410	447	390	355	393
75°	190	190	173	119	81	203
85°	53	53	49	32	19	58
90°	2	7	12	15	15	6
95°	56	205	663	283	181	59
105°	184	283	1136	1730	1614	194
115°	326	397	911	1814	2059	322
125°	450	512	827	1398	1638	401
135°	543	602	803	1131	1280	419
145°	627	670	791	964	1038	393
155°	710	733	786	866	891	326
165°	768	777	790	822	827	216
175°	794	796	791	801	800	75
180°	794	794	794	794	794	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4870.6	4870.6	4870.6	4870.6	4870.6
2.5°	4882.5	4839.1	4850.0	4849.7	4836.4
5°	4791.5	4743.4	4774.4	4785.5	4802.2
7.5°	4613.7	4577.3	4633.8	4675.6	4709.4
10°	4475.2	4443.8	4515.8	4576.6	4620.5
12.5°	4314.5	4288.1	4377.3	4459.0	4516.2
15°	4052.0	4037.4	4146.1	4258.9	4332.0
17.5°	3771.2	3764.1	3888.8	4020.4	4114.0
20°	3579.7	3577.6	3714.4	3851.5	3960.1
22.5°	3386.5	3391.1	3534.8	3677.4	3801.1
25°	3096.7	3105.1	3265.6	3407.9	3558.4
27.5°	2828.7	2832.5	2998.4	3148.7	3309.2
30°	2645.8	2656.2	2818.9	2974.4	3141.6
32.5°	2462.9	2475.0	2634.3	2795.0	2965.5
35°	2188.4	2198.9	2346.6	2504.5	2682.1
37.5°	1905.5	1919.7	2050.8	2200.1	2374.8
40°	1722.5	1743.4	1859.3	2000.0	2171.3
42.5°	1546.4	1572.4	1679.8	1813.3	1967.9
45°	1312.2	1337.3	1425.5	1533.4	1673.4
47.5°	1110.5	1139.3	1207.1	1300.0	1419.5
50°	995.9	1023.1	1085.7	1154.5	1267.3
52.5°	895.0	922.2	978.0	1031.0	1127.1
55°	754.4	785.8	831.4	862.9	933.9
57.5°	639.0	669.1	705.3	719.5	762.5
60°	562.1	595.5	628.3	626.7	649.7
62.5°	492.0	520.4	553.1	530.5	531.7
65°	378.3	409.6	446.7	390.3	354.8
67.5°	305.6	312.3	350.5	272.2	230.0
70°	271.4	271.4	282.1	210.8	175.2
72.5°	238.9	238.9	229.1	171.4	134.2
75°	190.2	190.2	173.1	118.8	81.2
77.5°	146.6	144.9	132.5	88.7	59.0
80°	117.5	117.5	106.9	70.0	47.0
82.5°	91.9	91.9	82.9	54.7	35.0
85°	53.4	53.4	49.2	31.8	19.2
87.5°	19.1	20.1	19.5	13.3	11.6
90°	1.7	6.6	11.8	15.2	15.2
92.5°	23.3	99.7	172.8	66.3	54.4
95°	55.8	204.6	662.7	283.4	180.9
97.5°	90.9	226.8	1011.3	779.2	549.8
100°	116.6	240.6	1120.8	1131.3	923.0
102.5°	141.0	257.0	1149.2	1403.5	1212.4
105°	184.3	283.4	1136.0	1730.2	1614.4
107.5°	225.5	316.1	1071.5	1890.1	1924.5
110°	255.3	337.9	1022.8	1929.9	2048.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	282.3	362.3	974.1	1904.3	2085.4
115°	326.3	397.3	911.2	1814.4	2059.1
117.5°	368.2	433.7	871.3	1688.4	1965.1
120°	393.9	456.7	853.7	1593.9	1879.9
122.5°	416.9	479.7	841.5	1511.1	1782.5
125°	449.7	512.5	826.7	1398.4	1638.1
127.5°	480.8	540.6	816.9	1304.4	1514.7
130°	497.0	558.2	811.4	1248.6	1440.3
132.5°	515.9	577.1	807.4	1199.5	1372.7
135°	542.7	602.2	803.0	1131.0	1279.7
137.5°	567.7	622.9	799.3	1075.6	1198.2
140°	586.6	637.9	797.9	1038.8	1149.6
142.5°	602.8	650.1	795.2	1006.0	1100.9
145°	627.2	670.2	791.2	963.6	1038.0
147.5°	653.2	690.2	789.1	926.1	985.6
150°	669.4	702.5	787.8	905.5	951.8
152.5°	684.3	714.7	786.4	887.7	926.1
155°	710.0	733.2	786.1	866.1	890.9
157.5°	728.6	747.5	786.1	848.4	865.5
160°	742.1	757.0	786.1	838.8	852.0
162.5°	753.0	765.2	787.4	830.6	841.2
165°	767.5	777.4	789.5	821.7	826.7
167.5°	777.6	785.2	791.2	814.2	815.5
170°	784.4	789.4	791.2	811.4	811.4
172.5°	789.8	792.1	791.2	807.4	806.0
175°	794.5	796.2	791.2	801.3	799.6
177.5°	795.9	795.9	790.5	798.5	795.9
180°	794.5	794.5	794.5	794.5	794.5

(END OF REPORT)