

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: P520289

Luminaire Tested: **SQ4-F-125U-050D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520289
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

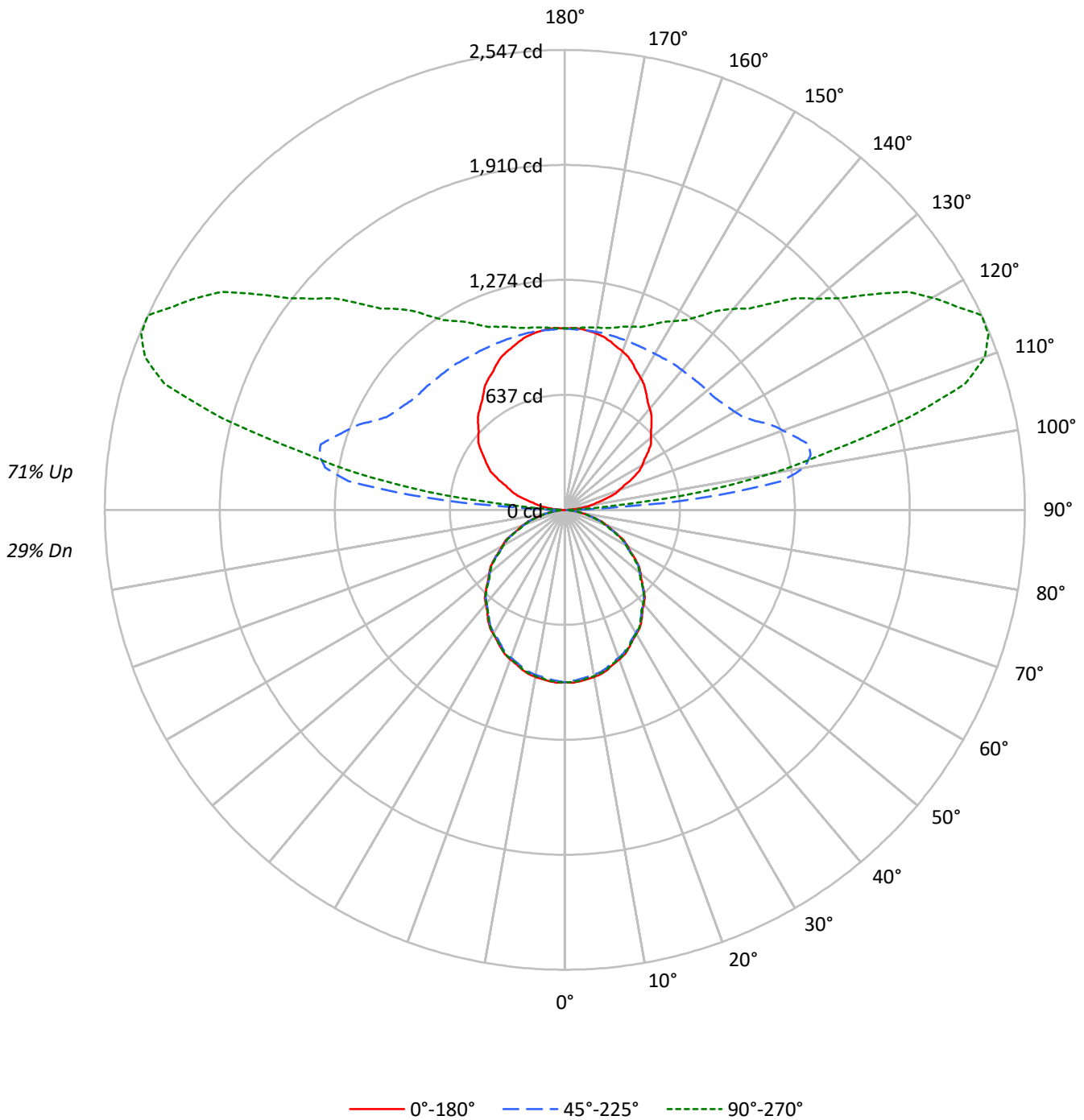
Lumens per Lamp: N/A
Luminaire Lumens: 9092.0 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.6
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37	29
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24
2	85	77	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	15
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5875	5875	5875
5°	5890	5819	5866
10°	5870	5798	5838
15°	5830	5756	5806
20°	5774	5708	5750
25°	5710	5640	5692
30°	5631	5585	5621
35°	5568	5501	5530
40°	5462	5411	5421
45°	5350	5305	5305
50°	5237	5187	5163
55°	5115	5045	5019
60°	4923	4844	4814
65°	4689	4596	4541
70°	4370	4277	4185
75°	3921	3798	3707
80°	3170	3128	3036
85°	1891	2167	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	1.0
10°-20°	256.6	2.8
20°-30°	385.5	4.2
30°-40°	460.1	5.1
40°-50°	471.5	5.2
50°-60°	420.5	4.6
60°-70°	313.2	3.4
70°-80°	170.0	1.9
80°-90°	41.7	0.5
90°-100°	469.8	5.2
100°-110°	1265.4	13.9
110°-120°	1328.1	14.6
120°-130°	1077.7	11.9
130°-140°	845.2	9.3
140°-150°	648.9	7.1
150°-160°	466.6	5.1
160°-170°	285.0	3.1
170°-180°	96.1	1.1
0°-30°	732.2	8.1
0°-40°	1192.4	13.1
0°-60°	2084.4	22.9
0°-90°	2609.3	28.7
90°-120°	3063.3	33.7
90°-150°	5635.0	62.0
90°-180°	6483.0	71.3
0°-180°	9092.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	954	953	942	951	950	91
15°	916	913	904	912	912	258
25°	841	839	831	836	839	387
35°	742	739	733	733	736	463
45°	615	616	610	609	610	475
55°	477	477	470	467	468	425
65°	322	321	316	312	312	319
75°	165	164	160	157	156	174
85°	27	29	31	32	32	38
90°	3	8	15	17	17	6
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°	785	847	1004	1220	1310	493
155°	892	924	995	1095	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°	955.1	955.1	955.1	955.1	955.1
2.5°	958.2	956.2	948.0	955.1	954.1
5°	953.9	952.6	942.4	951.2	950.1
7.5°	947.0	944.4	934.4	943.1	941.9
10°	939.8	937.3	928.3	936.0	934.7
12.5°	930.6	929.1	919.1	926.8	926.5
15°	915.6	913.0	904.0	911.7	911.7
17.5°	895.5	894.1	885.3	892.7	891.7
20°	882.2	879.8	872.1	878.4	878.4
22.5°	865.9	864.4	856.7	862.1	863.1
25°	841.3	838.8	831.1	836.3	838.7
27.5°	814.3	812.2	805.8	809.2	810.9
30°	792.8	792.8	786.4	787.8	791.5
32.5°	773.4	773.4	765.9	767.3	768.9
35°	741.6	739.1	732.6	732.7	736.5
37.5°	704.8	703.6	699.4	698.7	699.7
40°	680.3	679.0	673.9	675.2	675.2
42.5°	655.7	654.4	649.3	647.5	649.5
45°	615.0	616.3	609.9	608.7	609.9
47.5°	574.9	574.9	569.7	566.2	568.3
50°	547.3	547.3	542.1	539.6	539.6
52.5°	518.6	519.7	513.5	510.0	511.0
55°	477.0	477.0	470.5	466.7	468.0
57.5°	430.9	430.9	424.5	420.8	423.0
60°	400.2	400.2	393.8	390.0	391.3
62.5°	369.6	369.6	363.2	359.3	359.5
65°	322.2	321.0	315.8	312.0	312.0
67.5°	276.7	273.4	269.5	264.5	264.5
70°	243.0	241.7	237.8	232.7	232.7
72.5°	212.3	210.0	206.1	202.0	202.0
75°	165.0	163.7	159.8	157.3	156.0
77.5°	118.1	117.1	116.8	113.3	114.3
80°	89.5	89.5	88.3	85.7	85.7
82.5°	63.9	65.0	62.6	62.1	61.1
85°	26.8	29.4	30.7	31.9	31.9
87.5°	5.6	9.7	10.3	11.5	11.5
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.2	110.2	218.0	105.0	72.9
95°	71.6	255.5	770.1	393.8	272.4
97.5°	114.4	292.5	1207.8	1009.0	760.9
100°	147.1	307.3	1347.1	1409.4	1169.3
102.5°	178.8	327.9	1393.0	1709.2	1512.0
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.2	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°	358.0	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	2112.4	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	1644.1	1923.2
130°	624.3	706.8	1028.6	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	1615.6
137.5°	710.2	785.8	1013.7	1356.4	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.7	1008.5	1272.7	1390.8
145°	785.4	846.7	1004.2	1219.9	1310.0
147.5°	819.3	872.6	999.8	1175.5	1246.2
150°	841.8	888.0	997.8	1147.6	1206.4
152.5°	862.2	902.5	996.8	1124.8	1172.5
155°	891.6	924.2	995.2	1094.6	1129.6
157.5°	917.4	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.1	965.4	997.6	1050.6	1063.1
165°	967.1	978.3	999.1	1038.8	1043.8
167.5°	982.5	989.0	1000.3	1029.8	1031.8
170°	992.7	995.2	1000.3	1024.7	1024.7
172.5°	998.9	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.3	1000.3	1014.3	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.2
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)