

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521623

Luminaire Tested: **SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521623
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-075D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

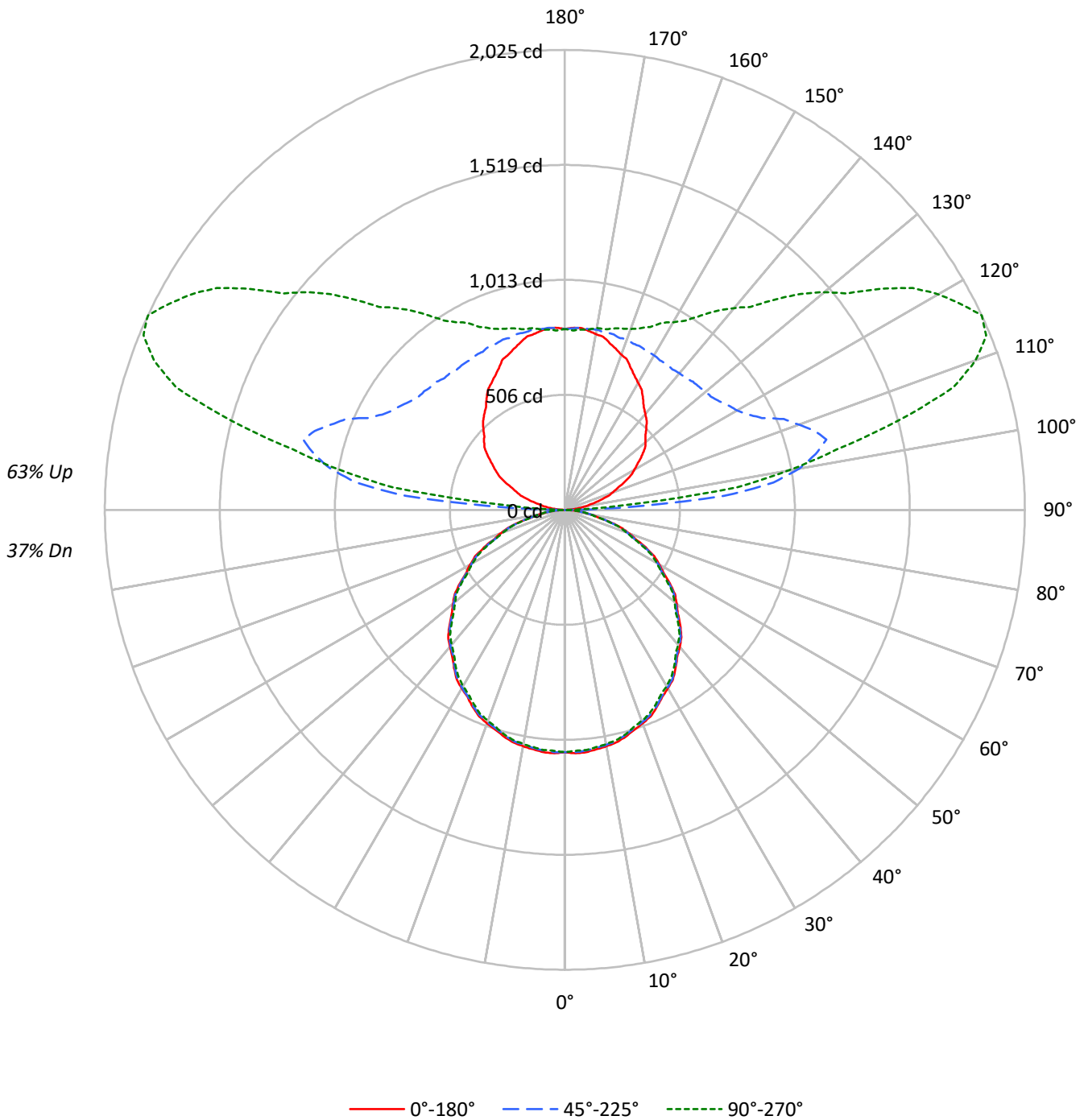
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8198.1 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.9
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	66	62	58	54	51	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	40	37	34	30	28	26	22
4	72	61	53	47	65	56	49	44	45	40	36	36	32	29	27	24	23	18
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	22	20	16
6	60	48	40	35	55	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	28	24	26	22	19	20	17	15	12
8	52	39	32	27	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9846	9846	9846
5°	9922	9856	9828
10°	9903	9847	9809
15°	9875	9808	9789
20°	9823	9774	9714
25°	9753	9712	9630
30°	9669	9636	9539
35°	9574	9527	9447
40°	9482	9421	9324
45°	9376	9297	9204
50°	9226	9153	9037
55°	9071	8958	8844
60°	8859	8710	8615
65°	8582	8361	8252
70°	8071	7853	7769
75°	7204	7062	6955
80°	5961	6014	5961
85°	4277	4817	5028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	1.2
10°-20°	289.3	3.5
20°-30°	437.5	5.3
30°-40°	526.8	6.4
40°-50°	547.2	6.7
50°-60°	496.5	6.1
60°-70°	378.7	4.6
70°-80°	211.0	2.6
80°-90°	55.4	0.7
90°-100°	410.4	5.0
100°-110°	991.9	12.1
110°-120°	1057.9	12.9
120°-130°	856.8	10.5
130°-140°	663.4	8.1
140°-150°	506.1	6.2
150°-160°	366.3	4.5
160°-170°	225.6	2.8
170°-180°	76.4	0.9
0°-30°	827.8	10.1
0°-40°	1354.6	16.5
0°-60°	2398.3	29.3
0°-90°	3043.3	37.1
90°-120°	2460.2	30.0
90°-150°	4486.5	54.7
90°-180°	5155.0	62.9
0°-180°	8198.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1067	1067	1067	1067	1067	
5°	1071	1061	1064	1062	1061	102
15°	1034	1022	1027	1025	1025	292
25°	958	948	954	945	946	441
35°	850	844	846	837	839	532
45°	719	712	712	704	705	554
55°	564	561	557	550	550	503
65°	393	389	383	377	378	387
75°	202	201	198	196	195	215
85°	40	45	46	48	48	50
90°	0	0	0	0	0	3
95°	40	205	703	457	320	45
105°	158	274	1192	1542	1523	167
115°	290	371	958	1816	2025	287
125°	413	476	831	1444	1696	369
135°	508	567	798	1139	1310	392
145°	600	645	782	968	1044	375
155°	688	718	792	857	889	318
165°	760	772	803	815	826	215
175°	804	801	804	798	796	76
180°	796	796	796	796	796	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1067.2	1067.2	1067.2	1067.2	1067.2
2.5°	1072.9	1065.0	1068.0	1065.5	1061.6
5°	1071.3	1061.4	1064.2	1062.2	1061.2
7.5°	1063.6	1053.7	1057.5	1054.5	1054.3
10°	1057.1	1047.3	1051.1	1048.0	1047.0
12.5°	1049.0	1038.4	1042.2	1039.1	1038.9
15°	1033.9	1022.0	1026.8	1024.8	1024.8
17.5°	1015.1	1003.4	1009.2	1005.6	1004.0
20°	1000.5	989.7	995.5	989.4	989.4
22.5°	985.2	974.3	979.3	972.4	972.4
25°	958.1	948.2	954.0	945.0	946.0
27.5°	928.6	919.7	924.7	916.1	916.5
30°	907.6	898.7	904.5	893.5	895.4
32.5°	885.7	877.6	881.1	871.6	872.0
35°	850.0	844.0	845.9	836.9	838.8
37.5°	813.2	806.2	808.1	798.9	800.8
40°	787.3	780.4	782.2	772.2	774.2
42.5°	759.8	753.7	754.7	744.7	747.5
45°	718.6	711.6	712.5	703.5	705.4
47.5°	674.3	668.8	667.6	659.4	661.2
50°	642.8	638.8	637.7	628.6	629.6
52.5°	611.2	608.1	605.4	597.1	599.7
55°	563.9	561.0	556.9	549.8	549.8
57.5°	514.8	511.9	506.7	499.7	501.7
60°	480.1	477.1	472.0	464.9	466.9
62.5°	445.3	442.3	436.4	430.2	431.3
65°	393.1	389.2	383.0	377.0	378.0
67.5°	337.2	333.4	328.3	322.4	323.6
70°	299.2	296.2	291.1	286.1	288.0
72.5°	259.5	256.6	252.3	249.6	249.2
75°	202.1	201.1	198.1	196.0	195.1
77.5°	147.8	149.1	145.5	144.7	144.5
80°	112.2	115.1	113.2	113.2	112.2
82.5°	80.6	85.2	84.1	84.1	83.9
85°	40.4	45.4	45.5	47.5	47.5
87.5°	11.3	16.1	18.6	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.5	111.1	261.7	127.2	86.3
95°	40.5	205.3	703.1	457.2	320.4
97.5°	71.8	227.5	926.1	892.2	765.9
100°	96.1	241.2	1048.8	1107.2	1003.3
102.5°	119.0	253.6	1129.8	1286.2	1224.5
105°	158.5	273.9	1192.1	1542.4	1522.6
107.5°	197.3	297.9	1155.4	1748.0	1794.5
110°	224.3	318.2	1096.0	1836.6	1924.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	251.2	338.6	1043.4	1858.2	2007.6
115°	290.0	370.8	957.8	1815.7	2025.1
117.5°	328.5	404.6	907.5	1718.1	1963.4
120°	354.1	425.0	875.1	1641.5	1898.7
122.5°	381.1	446.7	854.9	1563.1	1816.4
125°	413.1	475.8	831.3	1444.1	1696.3
127.5°	444.8	503.8	814.8	1343.2	1564.8
130°	463.7	521.4	809.4	1273.0	1490.6
132.5°	481.2	541.6	801.3	1222.3	1407.0
135°	507.5	566.9	797.6	1138.7	1310.2
137.5°	532.5	592.2	785.8	1082.1	1211.4
140°	551.4	605.8	785.8	1041.4	1160.1
142.5°	570.3	624.7	779.0	1005.9	1106.1
145°	600.3	644.8	782.4	967.9	1043.8
147.5°	628.3	671.5	780.4	924.1	986.8
150°	645.8	683.7	785.8	904.9	954.4
152.5°	664.7	701.3	784.4	884.6	928.8
155°	688.0	717.6	792.5	857.3	888.6
157.5°	716.0	741.4	790.8	846.9	865.4
160°	726.8	748.2	797.6	833.3	846.5
162.5°	744.3	763.1	794.9	829.1	837.0
165°	760.5	772.0	802.6	814.7	826.2
167.5°	780.4	788.0	800.6	813.8	814.1
170°	785.8	790.7	806.0	804.5	812.7
172.5°	795.2	798.8	802.0	805.6	800.6
175°	804.3	801.0	804.3	797.5	795.9
177.5°	802.6	802.6	799.9	797.1	790.5
180°	795.9	795.9	795.9	795.9	795.9

(END OF REPORT)