

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: P521675

Luminaire Tested: **SQ4-F-150U-075D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521675
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-150U-075D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

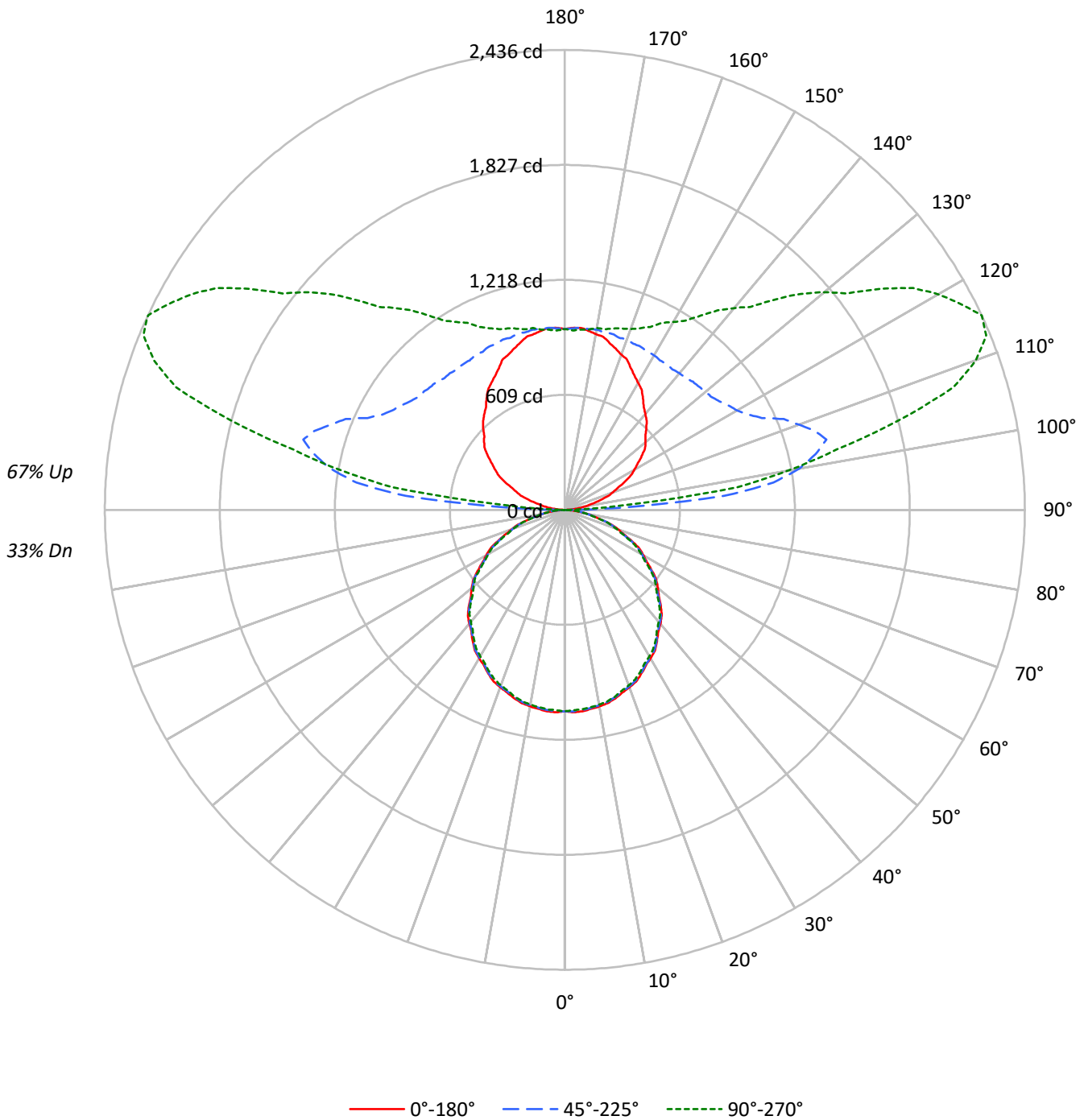
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9244.9 lumens
Efficiency: N/A
Efficacy: 111.9 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): 82.6
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	82	84	81	78	75	64	62	60	49	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	28	23
3	78	68	61	56	70	62	56	51	50	45	42	38	35	33	27	26	24	19
4	71	60	53	47	64	55	48	43	44	39	35	34	30	28	24	22	21	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	35	30	49	39	32	28	32	27	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	17	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	21	17	14	15	13	11	9
10	44	32	25	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

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	1.1
10°-20°	289.3	3.1
20°-30°	437.5	4.7
30°-40°	526.8	5.7
40°-50°	547.2	5.9
50°-60°	496.5	5.4
60°-70°	378.7	4.1
70°-80°	211.0	2.3
80°-90°	55.4	0.6
90°-100°	493.7	5.3
100°-110°	1193.3	12.9
110°-120°	1272.7	13.8
120°-130°	1030.8	11.2
130°-140°	798.1	8.6
140°-150°	608.8	6.6
150°-160°	440.7	4.8
160°-170°	271.4	2.9
170°-180°	91.9	1.0
0°-30°	827.8	9.0
0°-40°	1354.6	14.7
0°-60°	2398.3	25.9
0°-90°	3043.3	32.9
90°-120°	2959.8	32.0
90°-150°	5397.5	58.4
90°-180°	6202.0	67.1
0°-180°	9244.9	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	4
95°	49	247	846	550	385	55
105°	191	330	1434	1856	1832	201
115°	349	446	1152	2184	2436	345
125°	497	572	1000	1737	2041	443
135°	611	682	960	1370	1576	471
145°	722	776	941	1164	1256	451
155°	828	863	954	1031	1069	382
165°	915	929	966	980	994	258
175°	968	964	968	960	958	91
180°	958	958	958	958	958	

TEST NUMBER: P521675

CATALOG NUMBER: SQ4-F-150U-075D-93050-1D-UNV-STD-W-4 (4000K)

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°	16.2	133.7	314.8	153.1	103.9
95°	48.7	247.0	845.9	550.1	385.4
97.5°	86.4	273.7	1114.1	1073.3	921.4
100°	115.6	290.2	1261.8	1332.0	1207.0
102.5°	143.2	305.1	1359.2	1547.4	1473.2
105°	190.7	329.5	1434.2	1855.7	1831.9
107.5°	237.3	358.3	1390.0	2102.9	2158.9
110°	269.8	382.9	1318.6	2209.5	2314.7



TEST NUMBER: P521675

CATALOG NUMBER: SQ4-F-150U-075D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	302.3	407.4	1255.3	2235.6	2415.3
115°	348.9	446.1	1152.3	2184.5	2436.4
117.5°	395.2	486.8	1091.8	2067.0	2362.1
120°	426.0	511.3	1052.9	1974.8	2284.2
122.5°	458.5	537.4	1028.5	1880.6	2185.2
125°	497.0	572.4	1000.1	1737.3	2040.8
127.5°	535.2	606.2	980.2	1616.0	1882.6
130°	557.9	627.3	973.7	1531.5	1793.3
132.5°	579.0	651.6	964.0	1470.5	1692.7
135°	610.6	682.0	959.5	1370.0	1576.2
137.5°	640.6	712.4	945.3	1301.9	1457.4
140°	663.4	728.8	945.3	1252.9	1395.7
142.5°	686.1	751.5	937.2	1210.2	1330.8
145°	722.2	775.7	941.3	1164.5	1255.7
147.5°	755.9	807.8	938.9	1111.8	1187.2
150°	777.0	822.6	945.3	1088.7	1148.2
152.5°	799.7	843.7	943.7	1064.2	1117.4
155°	827.7	863.4	953.5	1031.4	1069.1
157.5°	861.4	891.9	951.4	1018.9	1041.1
160°	874.3	900.1	959.5	1002.5	1018.4
162.5°	895.4	918.1	956.3	997.5	1007.0
165°	914.9	928.8	965.6	980.1	994.0
167.5°	938.9	948.0	963.2	979.0	979.4
170°	945.3	951.3	969.7	967.9	977.8
172.5°	956.7	961.1	964.8	969.1	963.2
175°	967.7	963.7	967.7	959.5	957.5
177.5°	965.6	965.6	962.4	959.0	951.0
180°	957.5	957.5	957.5	957.5	957.5

(END OF REPORT)