

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: P521361

Luminaire Tested: **SQ4-F-025U-075D-93050-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521361
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-025U-075D-93050-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

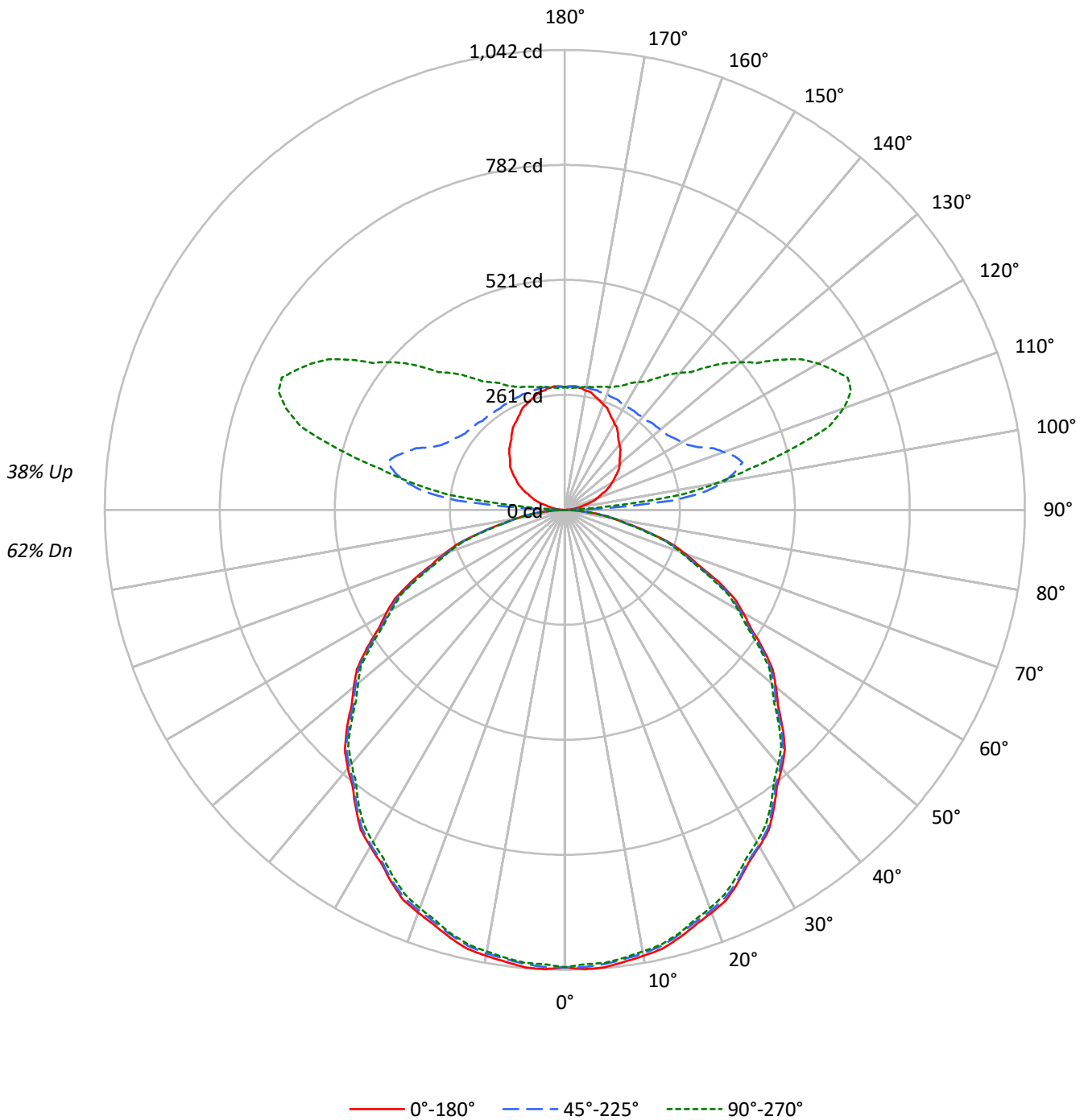
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4755.8 lumens
Efficiency: N/A
Efficacy: 103.6 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-Direct

Input Watts (W): 45.9
Input Voltage (V): 120
Input Current (A_{in}): 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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	100	96	92	88	94	90	86	83	79	76	74	69	67	65	59	58	56	52
2	91	83	77	72	85	78	73	68	69	64	61	60	57	54	52	49	47	43
3	83	73	66	60	77	69	62	57	61	55	51	53	49	45	46	43	40	36
4	76	65	56	50	71	61	54	48	54	48	43	47	42	39	41	37	34	31
5	70	58	49	43	65	54	47	41	48	42	37	42	37	33	37	33	30	27
6	64	52	43	37	60	49	41	36	43	37	32	38	33	29	33	29	26	23
7	59	47	38	33	55	44	37	31	39	33	28	35	30	26	30	26	23	21
8	55	42	34	29	51	40	33	28	36	30	25	32	27	23	28	24	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19	17
10	48	35	28	23	45	34	27	22	30	24	20	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9560	9560	9560
5°	9633	9569	9542
10°	9615	9561	9523
15°	9588	9522	9503
20°	9538	9489	9431
25°	9469	9430	9349
30°	9387	9356	9262
35°	9294	9250	9173
40°	9206	9147	9052
45°	9102	9026	8936
50°	8958	8886	8774
55°	8807	8696	8586
60°	8601	8455	8364
65°	8333	8119	8012
70°	7834	7623	7542
75°	6994	6855	6752
80°	5786	5839	5786
85°	4150	4679	4880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.1	2.1
10°-20°	280.9	5.9
20°-30°	424.8	8.9
30°-40°	511.4	10.8
40°-50°	531.2	11.2
50°-60°	482.0	10.1
60°-70°	367.6	7.7
70°-80°	204.9	4.3
80°-90°	53.7	1.1
90°-100°	143.4	3.0
100°-110°	346.6	7.3
110°-120°	369.6	7.8
120°-130°	299.4	6.3
130°-140°	231.8	4.9
140°-150°	176.8	3.7
150°-160°	128.0	2.7
160°-170°	78.8	1.7
170°-180°	26.7	0.6
0°-30°	803.7	16.9
0°-40°	1315.1	27.7
0°-60°	2328.4	49.0
0°-90°	2954.7	62.1
90°-120°	859.6	18.1
90°-150°	1567.6	33.0
90°-180°	1801.0	37.9
0°-180°	4755.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1040	1030	1033	1031	1030	99
15°	1004	992	997	995	995	283
25°	930	921	926	918	918	428
35°	825	819	821	812	814	516
45°	698	691	692	683	685	537
55°	548	545	541	534	534	489
65°	382	378	372	366	367	376
75°	196	195	192	190	189	209
85°	39	44	44	46	46	48
90°	0	0	0	0	0	2
95°	14	72	246	160	112	16
105°	55	96	416	539	532	58
115°	101	130	335	634	708	100
125°	144	166	290	505	593	129
135°	177	198	279	398	458	137
145°	210	225	273	338	365	131
155°	240	251	277	300	310	111
165°	266	270	280	285	289	75
175°	281	280	281	279	278	27
180°	278	278	278	278	278	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1041.7	1034.0	1036.9	1034.5	1030.7
5°	1040.1	1030.5	1033.2	1031.2	1030.3
7.5°	1032.6	1023.0	1026.7	1023.8	1023.6
10°	1026.3	1016.8	1020.5	1017.5	1016.5
12.5°	1018.5	1008.1	1011.8	1008.9	1008.7
15°	1003.8	992.3	996.9	994.9	994.9
17.5°	985.5	974.2	979.8	976.3	974.7
20°	971.4	960.8	966.5	960.6	960.6
22.5°	956.5	945.9	950.8	944.1	944.1
25°	930.2	920.6	926.3	917.5	918.4
27.5°	901.5	892.9	897.8	889.4	889.8
30°	881.1	872.5	878.2	867.4	869.4
32.5°	859.9	852.1	855.4	846.2	846.6
35°	825.2	819.4	821.3	812.5	814.4
37.5°	789.5	782.8	784.6	775.6	777.5
40°	764.4	757.6	759.5	749.7	751.6
42.5°	737.7	731.7	732.8	723.0	725.7
45°	697.6	690.9	691.8	683.0	684.9
47.5°	654.7	649.3	648.2	640.2	641.9
50°	624.1	620.2	619.1	610.3	611.3
52.5°	593.4	590.4	587.7	579.8	582.3
55°	547.5	544.6	540.6	533.8	533.8
57.5°	499.8	497.0	492.0	485.2	487.1
60°	466.1	463.2	458.2	451.4	453.3
62.5°	432.3	429.4	423.7	417.6	418.8
65°	381.7	377.9	371.9	366.0	367.0
67.5°	327.3	323.7	318.7	313.0	314.2
70°	290.4	287.6	282.6	277.7	279.6
72.5°	252.0	249.1	244.9	242.4	242.0
75°	196.2	195.3	192.3	190.3	189.4
77.5°	143.5	144.8	141.3	140.5	140.3
80°	108.9	111.8	109.9	109.9	108.9
82.5°	78.3	82.7	81.6	81.6	81.4
85°	39.2	44.0	44.2	46.1	46.1
87.5°	11.0	15.6	18.1	18.8	18.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	38.8	91.4	44.5	30.2
95°	14.1	71.7	245.7	159.8	111.9
97.5°	25.1	79.5	323.6	311.7	267.6
100°	33.6	84.3	366.5	386.8	350.6
102.5°	41.6	88.6	394.7	449.4	427.9
105°	55.4	95.7	416.5	538.9	532.0
107.5°	68.9	104.1	403.7	610.7	627.0
110°	78.4	111.2	383.0	641.7	672.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	87.8	118.3	364.6	649.3	701.5
115°	101.3	129.6	334.6	634.4	707.6
117.5°	114.8	141.4	317.1	600.3	686.0
120°	123.7	148.5	305.8	573.5	663.4
122.5°	133.2	156.1	298.7	546.2	634.7
125°	144.3	166.2	290.5	504.6	592.7
127.5°	155.4	176.0	284.7	469.3	546.7
130°	162.0	182.2	282.8	444.8	520.8
132.5°	168.1	189.2	280.0	427.1	491.6
135°	177.3	198.1	278.7	397.9	457.8
137.5°	186.1	206.9	274.6	378.1	423.3
140°	192.7	211.7	274.6	363.9	405.3
142.5°	199.3	218.3	272.2	351.5	386.5
145°	209.7	225.3	273.4	338.2	364.7
147.5°	219.5	234.6	272.7	322.9	344.8
150°	225.7	238.9	274.6	316.2	333.5
152.5°	232.3	245.0	274.1	309.1	324.5
155°	240.4	250.8	276.9	299.5	310.5
157.5°	250.2	259.0	276.3	295.9	302.4
160°	253.9	261.4	278.7	291.2	295.8
162.5°	260.1	266.6	277.7	289.7	292.5
165°	265.7	269.7	280.4	284.7	288.7
167.5°	272.7	275.3	279.7	284.3	284.5
170°	274.6	276.3	281.6	281.1	284.0
172.5°	277.9	279.1	280.2	281.5	279.7
175°	281.0	279.9	281.0	278.7	278.1
177.5°	280.4	280.4	279.5	278.5	276.2
180°	278.1	278.1	278.1	278.1	278.1

(END OF REPORT)