

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: P565046

Luminaire Tested: **SQ4-PW1-125U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565046
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6780.0 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

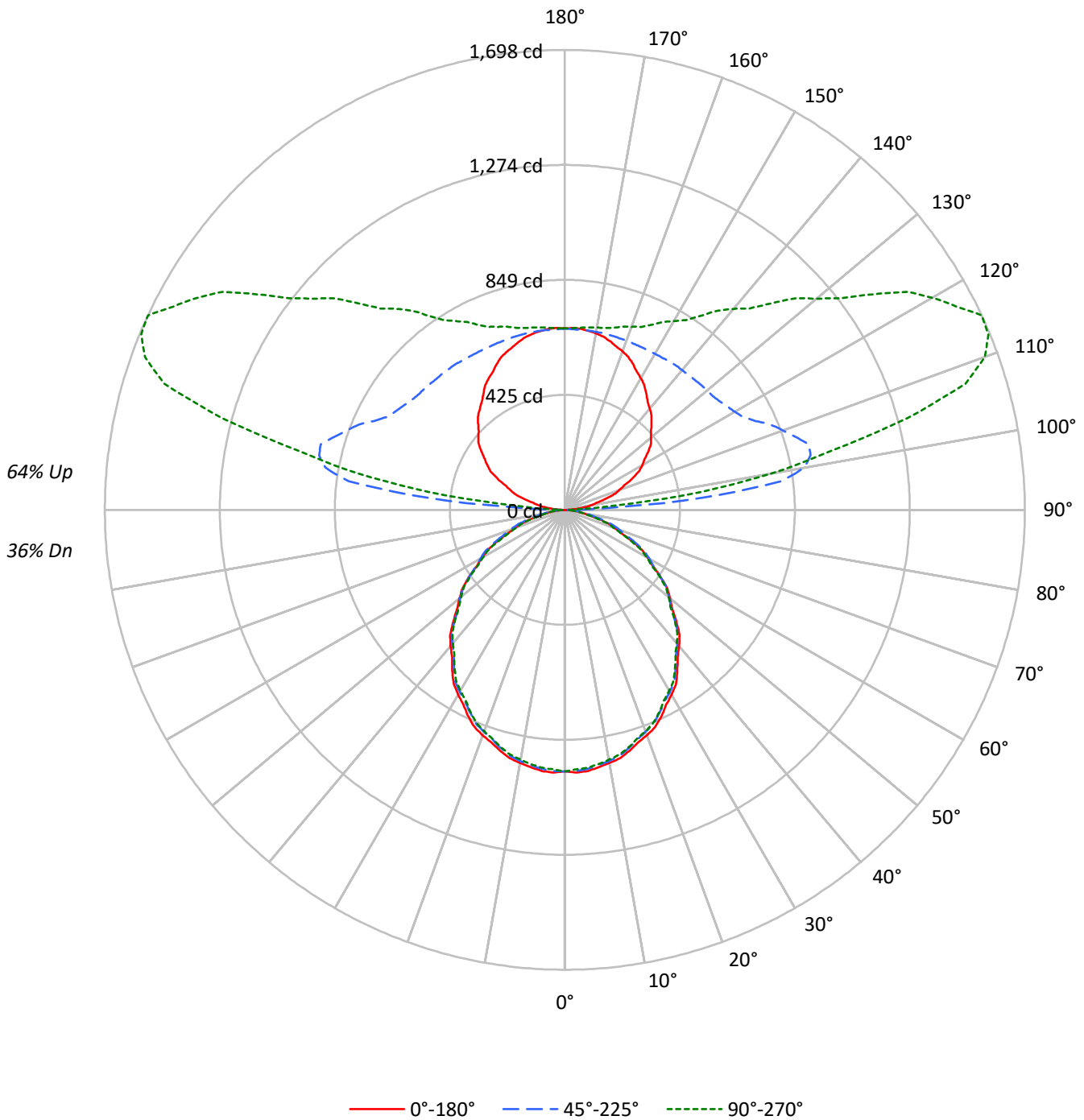
Input Watts (W): 55.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	32	31	26
3	79	70	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	28	29	25	23	22	19	18	14
7	56	44	36	31	51	40	34	29	33	28	24	26	23	20	20	17	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	28	23	19	22	18	16	17	14	13	10
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8908	8908	8908
5°	8966	8895	8856
10°	8894	8822	8775
15°	8800	8703	8670
20°	8695	8562	8545
25°	8574	8418	8391
30°	8393	8265	8211
35°	8153	8038	7991
40°	7900	7777	7745
45°	7593	7492	7459
50°	7277	7217	7168
55°	6938	6938	6828
60°	6514	6639	6405
65°	5962	6259	5814
70°	5255	5759	5117
75°	4488	5155	4367
80°	3480	4341	3528
85°	2255	3335	2975



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.3
10°-20°	256.7	3.8
20°-30°	380.8	5.6
30°-40°	445.5	6.6
40°-50°	443.5	6.5
50°-60°	383.0	5.6
60°-70°	275.7	4.1
70°-80°	144.6	2.1
80°-90°	37.4	0.6
90°-100°	313.2	4.6
100°-110°	843.6	12.4
110°-120°	885.4	13.1
120°-130°	718.5	10.6
130°-140°	563.5	8.3
140°-150°	432.6	6.4
150°-160°	311.0	4.6
160°-170°	190.0	2.8
170°-180°	64.1	0.9
0°-30°	728.4	10.7
0°-40°	1173.9	17.3
0°-60°	2000.5	29.5
0°-90°	2458.2	36.3
90°-120°	2042.2	30.1
90°-150°	3756.7	55.4
90°-180°	4322.0	63.7
0°-180°	6780.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	968	957	960	958	956	92
15°	921	910	911	909	908	260
25°	842	828	827	822	824	387
35°	724	714	714	707	710	453
45°	582	577	574	572	572	449
55°	431	430	431	425	424	385
65°	273	281	287	275	266	271
75°	126	138	145	135	122	135
85°	21	28	32	30	28	28
90°	2	5	10	11	11	4
95°	48	170	513	262	182	50
105°	156	243	933	1396	1310	164
115°	276	337	777	1501	1698	271
125°	376	432	698	1179	1388	336
135°	453	505	678	951	1077	350
145°	524	564	670	813	873	328
155°	594	616	664	730	753	274
165°	645	652	666	693	696	182
175°	670	670	667	676	675	64
180°	670	670	670	670	670	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.5	965.5	965.5	965.5	965.5
2.5°	971.0	963.0	965.5	963.4	958.7
5°	968.1	957.3	960.4	957.9	956.2
7.5°	958.2	948.3	950.6	947.8	946.8
10°	949.4	939.4	941.7	938.3	936.6
12.5°	939.2	928.5	930.8	927.4	926.4
15°	921.3	909.7	911.1	909.4	907.7
17.5°	900.6	888.7	889.0	886.3	885.9
20°	885.6	873.1	872.0	868.6	870.3
22.5°	869.2	856.1	855.0	850.2	852.6
25°	842.2	828.1	826.9	821.8	824.3
27.5°	810.9	796.9	796.9	789.9	792.5
30°	787.8	774.4	775.8	767.4	770.7
32.5°	763.3	751.3	752.0	743.6	746.9
35°	723.9	714.0	713.7	707.0	709.5
37.5°	683.8	675.0	673.6	669.7	670.4
40°	655.9	648.4	645.7	643.1	643.1
42.5°	626.6	619.8	617.1	615.2	614.5
45°	581.9	576.9	574.2	572.5	571.7
47.5°	537.6	533.0	530.7	529.5	528.6
50°	507.0	503.7	502.8	500.2	499.4
52.5°	476.4	474.4	473.5	470.2	469.4
55°	431.3	430.5	431.3	425.3	424.5
57.5°	384.3	385.7	388.4	380.4	378.4
60°	353.0	356.4	359.8	350.4	347.1
62.5°	321.1	326.4	331.3	320.4	315.8
65°	273.1	281.4	286.7	275.4	266.3
67.5°	226.8	237.1	243.5	231.3	221.0
70°	194.8	206.5	213.5	201.4	189.7
72.5°	166.9	179.9	185.6	174.1	162.5
75°	125.9	137.5	144.6	135.0	122.5
77.5°	89.3	100.3	106.2	97.8	87.5
80°	65.5	77.1	81.7	74.7	66.4
82.5°	46.4	56.1	59.2	55.0	49.3
85°	21.3	27.9	31.5	29.7	28.1
87.5°	5.8	11.1	15.0	15.2	15.8
90°	1.7	5.0	10.2	11.1	11.1
92.5°	20.8	73.5	145.3	70.0	48.6
95°	47.8	170.3	513.4	262.5	181.7
97.5°	76.2	195.0	805.2	672.7	507.3
100°	98.1	204.8	898.0	939.6	779.5
102.5°	119.2	218.6	928.7	1139.5	1008.0
105°	156.1	242.8	933.0	1395.8	1309.9
107.5°	190.9	268.2	893.3	1527.6	1549.8
110°	214.1	287.4	857.1	1568.5	1649.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	238.6	306.7	822.3	1559.4	1692.4
115°	275.5	337.2	776.9	1501.2	1698.0
117.5°	309.1	366.9	741.8	1408.2	1627.4
120°	330.9	386.8	724.1	1341.5	1566.6
122.5°	350.0	405.2	711.1	1273.3	1497.7
125°	376.1	432.0	697.6	1179.1	1387.6
127.5°	401.2	456.2	689.1	1096.0	1282.1
130°	416.2	471.2	685.7	1048.4	1211.9
132.5°	431.2	485.6	682.3	1006.5	1156.6
135°	452.9	505.4	678.0	951.2	1077.1
137.5°	473.5	523.9	675.8	904.3	1007.7
140°	487.8	536.2	673.7	875.4	968.8
142.5°	502.8	547.9	672.4	848.5	927.2
145°	523.6	564.5	669.5	813.3	873.3
147.5°	546.2	581.7	666.6	783.6	830.8
150°	561.2	592.0	665.2	765.0	804.2
152.5°	574.8	601.7	664.5	749.8	781.7
155°	594.4	616.1	663.5	729.7	753.0
157.5°	611.6	628.5	663.7	715.5	731.2
160°	622.6	636.7	664.4	707.3	718.9
162.5°	632.1	643.6	665.0	700.4	708.7
165°	644.7	652.2	666.1	692.6	695.9
167.5°	655.0	659.3	666.9	686.6	687.9
170°	661.8	663.5	666.9	683.1	683.1
172.5°	665.9	666.2	667.6	679.7	679.7
175°	670.3	669.5	666.9	676.3	674.6
177.5°	672.2	670.9	667.4	672.9	671.5
180°	669.5	669.5	669.5	669.5	669.5

(END OF REPORT)