

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: P564691

Luminaire Tested: **SQ4-PW1-050U-125D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564691
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-125D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

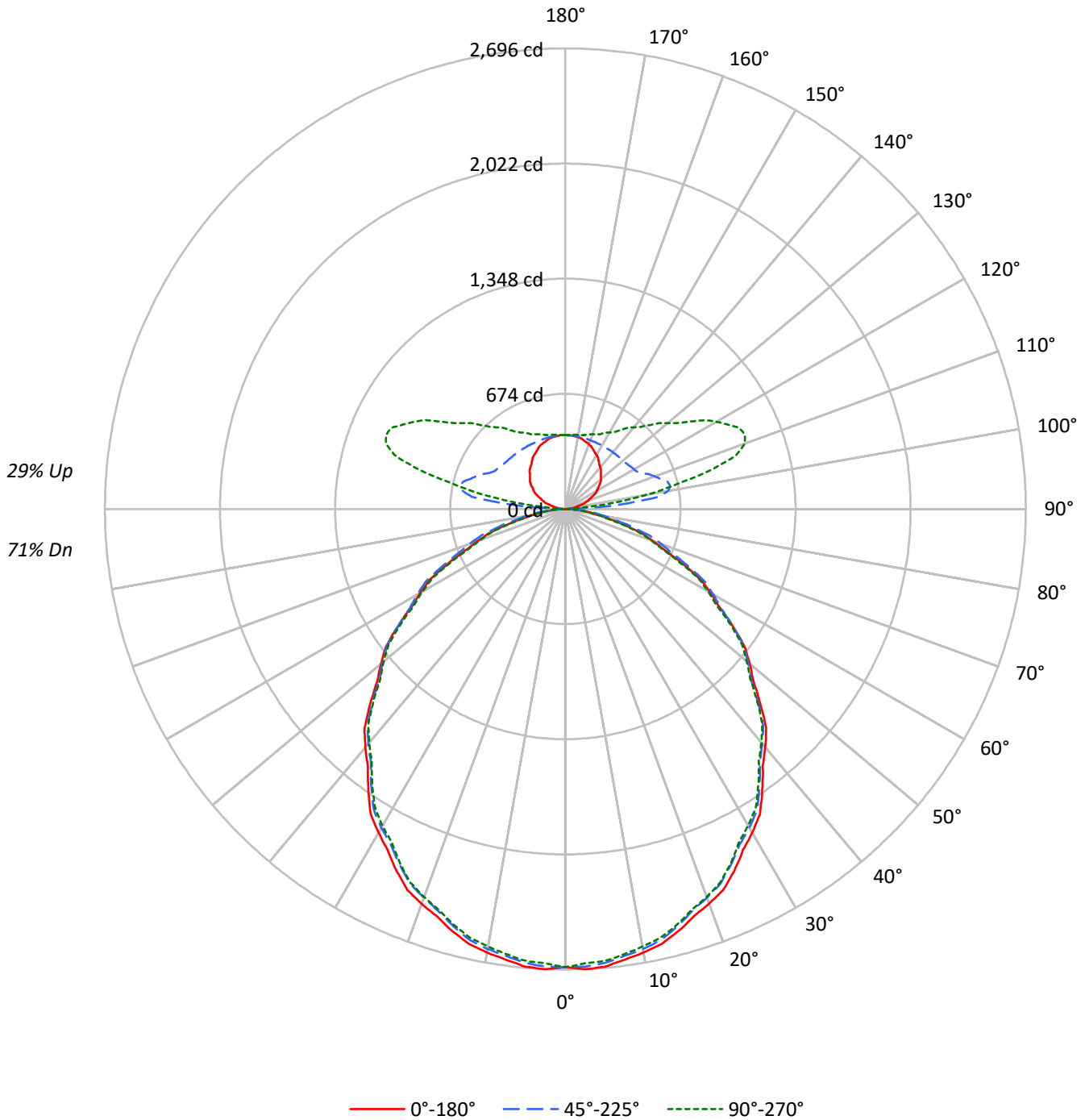
Lumens per Lamp: N/A
Luminaire Lumens: 9644.0 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 87.8
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16493	16493	16493
5°	16600	16468	16395
10°	16467	16334	16245
15°	16292	16112	16051
20°	16097	15850	15819
25°	15873	15584	15536
30°	15537	15302	15202
35°	15096	14883	14794
40°	14625	14397	14340
45°	14056	13871	13810
50°	13473	13360	13270
55°	12845	12845	12642
60°	12060	12293	11858
65°	11036	11586	10761
70°	9729	10664	9474
75°	8308	9544	8085
80°	6443	8033	6528
85°	4171	6168	5505



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.5	2.6
10°-20°	712.9	7.4
20°-30°	1057.4	11.0
30°-40°	1237.3	12.8
40°-50°	1231.7	12.8
50°-60°	1063.7	11.0
60°-70°	765.6	7.9
70°-80°	401.5	4.2
80°-90°	101.2	1.0
90°-100°	207.4	2.2
100°-110°	563.3	5.8
110°-120°	579.1	6.0
120°-130°	463.0	4.8
130°-140°	363.8	3.8
140°-150°	279.0	2.9
150°-160°	200.6	2.1
160°-170°	122.7	1.3
170°-180°	41.3	0.4
0°-30°	2022.8	21.0
0°-40°	3260.0	33.8
0°-60°	5555.4	57.6
0°-90°	6823.8	70.8
90°-120°	1349.8	14.0
90°-150°	2455.6	25.5
90°-180°	2820.0	29.2
0°-180°	9644.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2681	2681	2681	2681	2681	
5°	2688	2658	2667	2660	2655	255
15°	2558	2526	2530	2525	2521	721
25°	2339	2300	2296	2282	2289	1075
35°	2010	1983	1982	1963	1970	1257
45°	1616	1602	1595	1590	1588	1247
55°	1198	1195	1198	1181	1179	1069
65°	758	781	796	765	739	751
75°	350	382	402	375	340	375
85°	59	78	87	83	78	78
90°	1	6	10	12	12	4
95°	31	113	361	157	106	32
105°	100	156	619	943	888	106
115°	178	216	496	986	1124	175
125°	244	278	449	756	892	218
135°	294	327	436	616	694	228
145°	340	365	430	523	562	214
155°	385	398	428	470	483	177
165°	417	422	429	447	449	118
175°	432	433	430	436	435	41
180°	432	432	432	432	432	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2681.4	2681.4	2681.4	2681.4	2681.4
2.5°	2696.5	2674.3	2681.4	2675.4	2662.5
5°	2688.5	2658.4	2667.2	2660.0	2655.4
7.5°	2661.1	2633.3	2639.8	2632.2	2629.4
10°	2636.5	2608.8	2615.2	2605.7	2601.0
12.5°	2608.1	2578.6	2585.0	2575.5	2572.7
15°	2558.5	2526.2	2530.2	2525.3	2520.7
17.5°	2500.9	2468.1	2468.7	2461.2	2460.2
20°	2459.3	2424.6	2421.5	2412.2	2416.8
22.5°	2413.9	2377.4	2374.3	2361.2	2367.6
25°	2338.8	2299.5	2296.3	2282.3	2289.2
27.5°	2251.9	2213.1	2213.1	2193.5	2200.8
30°	2187.6	2150.7	2154.5	2131.1	2140.4
32.5°	2119.6	2086.3	2088.4	2065.0	2074.2
35°	2010.4	1982.7	1982.1	1963.3	1970.3
37.5°	1898.9	1874.4	1870.6	1859.8	1861.6
40°	1821.4	1800.7	1793.1	1786.0	1786.0
42.5°	1740.2	1721.2	1713.7	1708.5	1706.6
45°	1615.9	1602.0	1594.6	1589.9	1587.6
47.5°	1493.1	1480.1	1473.7	1470.3	1468.0
50°	1408.0	1398.8	1396.2	1389.1	1386.8
52.5°	1323.0	1317.4	1314.9	1305.9	1303.6
55°	1197.8	1195.4	1197.8	1181.2	1178.9
57.5°	1067.3	1071.0	1078.7	1056.4	1050.8
60°	980.4	989.7	999.3	973.1	963.9
62.5°	891.6	906.4	919.9	889.9	876.9
65°	758.3	781.4	796.1	764.9	739.4
67.5°	629.8	658.5	676.1	642.4	613.8
70°	541.0	573.3	593.0	559.2	526.8
72.5°	463.5	499.5	515.5	483.6	451.2
75°	349.6	382.0	401.6	374.8	340.2
77.5°	248.1	278.5	294.8	271.5	242.9
80°	181.9	214.2	226.8	207.4	184.3
82.5°	129.0	155.8	164.4	152.7	137.0
85°	59.1	77.5	87.4	82.6	78.0
87.5°	15.4	29.1	37.9	38.5	40.3
90°	1.4	5.5	9.7	12.5	12.5
92.5°	12.5	56.8	98.6	42.4	35.8
95°	30.6	113.4	361.1	157.2	105.6
97.5°	50.6	125.2	553.6	430.7	302.5
100°	63.9	133.1	612.5	620.9	501.4
102.5°	77.2	141.0	628.0	767.9	662.5
105°	100.0	155.7	619.4	943.2	887.5
107.5°	123.6	172.8	583.6	1033.7	1049.1
110°	140.3	185.1	556.9	1051.5	1118.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	154.7	197.4	530.3	1036.7	1136.9
115°	177.8	215.8	495.8	986.4	1123.6
117.5°	199.4	235.8	473.9	915.2	1069.7
120°	213.9	249.2	463.9	867.4	1020.8
122.5°	226.1	261.4	457.2	819.5	967.5
125°	244.4	278.4	448.6	755.8	891.6
127.5°	260.8	294.5	443.9	707.6	824.2
130°	270.8	303.4	441.7	677.4	781.9
132.5°	280.8	313.4	439.4	651.5	744.2
135°	294.4	327.0	436.1	615.7	694.4
137.5°	309.2	338.8	434.4	584.0	650.3
140°	318.0	346.6	433.3	563.8	623.6
142.5°	326.9	353.3	432.2	548.1	598.0
145°	340.3	364.7	430.5	523.1	562.5
147.5°	355.3	376.2	429.2	503.5	534.4
150°	365.3	382.9	429.2	492.2	516.7
152.5°	373.0	388.5	428.0	482.1	502.2
155°	384.7	398.3	427.8	469.7	483.3
157.5°	396.1	406.7	427.8	461.3	471.7
160°	402.8	412.3	427.8	455.7	463.9
162.5°	409.4	416.8	428.9	451.2	457.2
165°	416.7	422.1	429.2	447.2	448.6
167.5°	424.2	426.9	430.5	442.5	443.6
170°	426.4	429.1	430.5	440.3	440.3
172.5°	428.6	430.2	430.5	438.0	438.0
175°	431.9	433.3	430.5	436.1	434.7
177.5°	433.0	433.0	429.7	434.1	431.9
180°	431.9	431.9	431.9	431.9	431.9

(END OF REPORT)