

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: P564677

Luminaire Tested: **SQ4-PW1-050U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564677
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-100D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13771.9 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

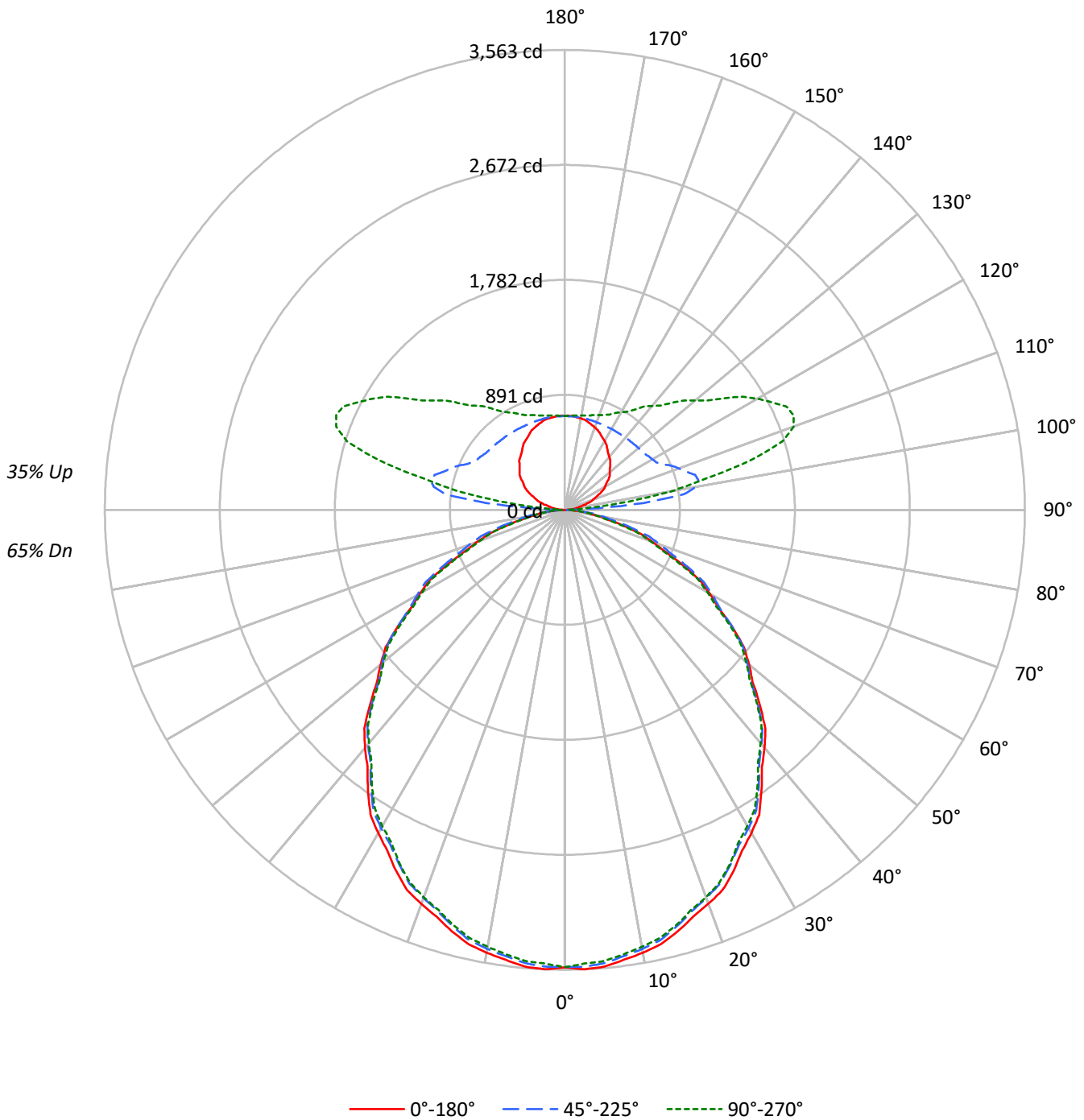
Input Watts (W): 134.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	101	97	93	90	95	91	88	85	81	78	76	71	69	68	62	61	60	55
2	92	85	79	73	87	80	75	70	71	67	63	63	59	57	55	53	50	47
3	84	75	67	61	79	71	64	59	63	58	53	56	51	48	49	46	43	40
4	77	66	58	52	72	63	55	50	56	50	45	50	45	41	44	40	37	34
5	71	59	51	45	67	56	48	43	50	44	39	45	40	36	39	36	32	30
6	66	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25	23
8	56	44	36	30	53	42	34	29	38	31	27	34	29	25	30	26	23	21
9	53	40	32	27	49	38	31	26	34	29	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10896	10896	10896
5°	10966	10879	10831
10°	10878	10791	10732
15°	10763	10644	10604
20°	10635	10471	10451
25°	10486	10295	10263
30°	10264	10109	10043
35°	9973	9832	9774
40°	9662	9512	9474
45°	9286	9164	9123
50°	8901	8826	8767
55°	8486	8486	8352
60°	7968	8122	7833
65°	7292	7655	7110
70°	6427	7045	6259
75°	5490	6305	5341
80°	4256	5308	4313
85°	2752	4076	3634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.6	2.4
10°-20°	941.9	6.8
20°-30°	1397.1	10.1
30°-40°	1634.8	11.9
40°-50°	1627.5	11.8
50°-60°	1405.4	10.2
60°-70°	1011.6	7.3
70°-80°	530.5	3.9
80°-90°	134.3	1.0
90°-100°	349.6	2.5
100°-110°	949.7	6.9
110°-120°	976.5	7.1
120°-130°	780.7	5.7
130°-140°	613.5	4.5
140°-150°	470.4	3.4
150°-160°	338.3	2.5
160°-170°	206.9	1.5
170°-180°	69.7	0.5
0°-30°	2672.6	19.4
0°-40°	4307.3	31.3
0°-60°	7340.2	53.3
0°-90°	9016.6	65.5
90°-120°	2275.9	16.5
90°-150°	4140.4	30.1
90°-180°	4755.0	34.5
0°-180°	13771.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3543	3543	3543	3543	3543	
5°	3552	3512	3524	3515	3508	336
15°	3380	3338	3343	3337	3330	953
25°	3090	3038	3034	3016	3025	1421
35°	2656	2620	2619	2594	2603	1661
45°	2135	2117	2107	2101	2098	1647
55°	1583	1580	1583	1561	1558	1412
65°	1002	1032	1052	1011	977	993
75°	462	505	531	495	450	495
85°	78	102	116	109	103	103
90°	2	9	16	21	21	6
95°	52	191	609	265	178	55
105°	169	262	1044	1590	1496	179
115°	300	364	836	1663	1894	296
125°	412	469	756	1274	1503	367
135°	496	551	735	1038	1171	384
145°	574	615	726	882	948	360
155°	649	672	721	792	815	299
165°	702	712	724	754	756	198
175°	728	731	726	735	733	69
180°	728	728	728	728	728	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3542.8	3542.8	3542.8	3542.8	3542.8
2.5°	3562.8	3533.5	3542.8	3534.9	3517.8
5°	3552.2	3512.5	3524.1	3514.6	3508.5
7.5°	3516.0	3479.3	3487.9	3477.8	3474.1
10°	3483.5	3446.9	3455.4	3442.8	3436.7
12.5°	3446.0	3407.0	3415.5	3402.9	3399.2
15°	3380.5	3337.8	3343.0	3336.7	3330.5
17.5°	3304.3	3261.0	3261.9	3251.9	3250.6
20°	3249.4	3203.6	3199.4	3187.1	3193.2
22.5°	3189.5	3141.2	3137.0	3119.7	3128.3
25°	3090.2	3038.3	3034.0	3015.5	3024.6
27.5°	2975.3	2924.1	2924.1	2898.1	2907.9
30°	2890.4	2841.6	2846.7	2815.8	2828.0
32.5°	2800.5	2756.6	2759.3	2728.4	2740.6
35°	2656.3	2619.7	2618.9	2594.1	2603.3
37.5°	2509.0	2476.6	2471.5	2457.2	2459.7
40°	2406.6	2379.1	2369.2	2359.8	2359.8
42.5°	2299.2	2274.2	2264.3	2257.4	2254.9
45°	2135.0	2116.7	2107.0	2100.6	2097.6
47.5°	1972.7	1955.6	1947.1	1942.7	1939.6
50°	1860.4	1848.2	1844.8	1835.3	1832.3
52.5°	1748.0	1740.7	1737.4	1725.4	1722.4
55°	1582.6	1579.5	1582.6	1560.6	1557.6
57.5°	1410.3	1415.1	1425.2	1395.7	1388.4
60°	1295.4	1307.6	1320.4	1285.7	1273.5
62.5°	1178.0	1197.6	1215.5	1175.8	1158.7
65°	1002.0	1032.5	1051.9	1010.6	977.0
67.5°	832.2	870.0	893.3	848.8	810.9
70°	714.8	757.5	783.5	738.8	696.1
72.5°	612.4	660.0	681.1	638.9	596.2
75°	462.0	504.7	530.6	495.3	449.5
77.5°	327.7	368.0	389.6	358.7	320.9
80°	240.3	283.1	299.7	274.0	243.5
82.5°	170.4	205.8	217.3	201.8	181.0
85°	78.0	102.5	115.5	109.1	103.0
87.5°	20.4	38.9	50.7	51.7	54.2
90°	2.3	9.2	16.4	21.1	21.1
92.5°	21.1	95.7	166.3	71.4	60.4
95°	51.5	191.2	608.9	265.0	178.0
97.5°	85.2	211.2	933.4	726.2	510.0
100°	107.7	224.5	1032.7	1046.9	845.4
102.5°	130.2	237.8	1059.0	1294.7	1117.0
105°	168.6	262.5	1044.4	1590.3	1496.4
107.5°	208.4	291.3	984.0	1742.9	1769.0
110°	236.5	312.1	939.1	1772.9	1885.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	260.9	332.8	894.1	1748.0	1917.0
115°	299.7	363.9	836.0	1663.2	1894.5
117.5°	336.3	397.6	799.0	1543.1	1803.6
120°	360.6	420.2	782.2	1462.5	1721.2
122.5°	381.2	440.8	770.9	1381.7	1631.3
125°	412.2	469.4	756.4	1274.4	1503.4
127.5°	439.8	496.6	748.4	1193.2	1389.6
130°	456.6	511.6	744.7	1142.1	1318.4
132.5°	473.5	528.5	740.9	1098.6	1254.7
135°	496.5	551.4	735.3	1038.1	1170.9
137.5°	521.3	571.2	732.5	984.7	1096.4
140°	536.3	584.4	730.6	950.7	1051.5
142.5°	551.3	595.7	728.8	924.1	1008.4
145°	573.7	615.0	726.0	882.0	948.4
147.5°	599.0	634.3	723.6	848.9	901.1
150°	615.9	645.7	723.6	829.9	871.1
152.5°	629.0	655.1	721.7	812.9	846.8
155°	648.7	671.6	721.3	792.0	814.9
157.5°	667.9	685.7	721.3	777.9	795.3
160°	679.1	695.1	721.3	768.4	782.2
162.5°	690.4	702.7	723.1	760.8	770.9
165°	702.5	711.7	723.6	754.1	756.4
167.5°	715.2	719.8	726.0	746.1	748.0
170°	718.9	723.5	726.0	742.3	742.3
172.5°	722.7	725.4	726.0	738.6	738.6
175°	728.3	730.6	726.0	735.3	733.0
177.5°	730.2	730.2	724.5	732.0	728.3
180°	728.3	728.3	728.3	728.3	728.3

(END OF REPORT)