

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: P564020

Luminaire Tested: **SQ4-PR1-050U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564020
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-050U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

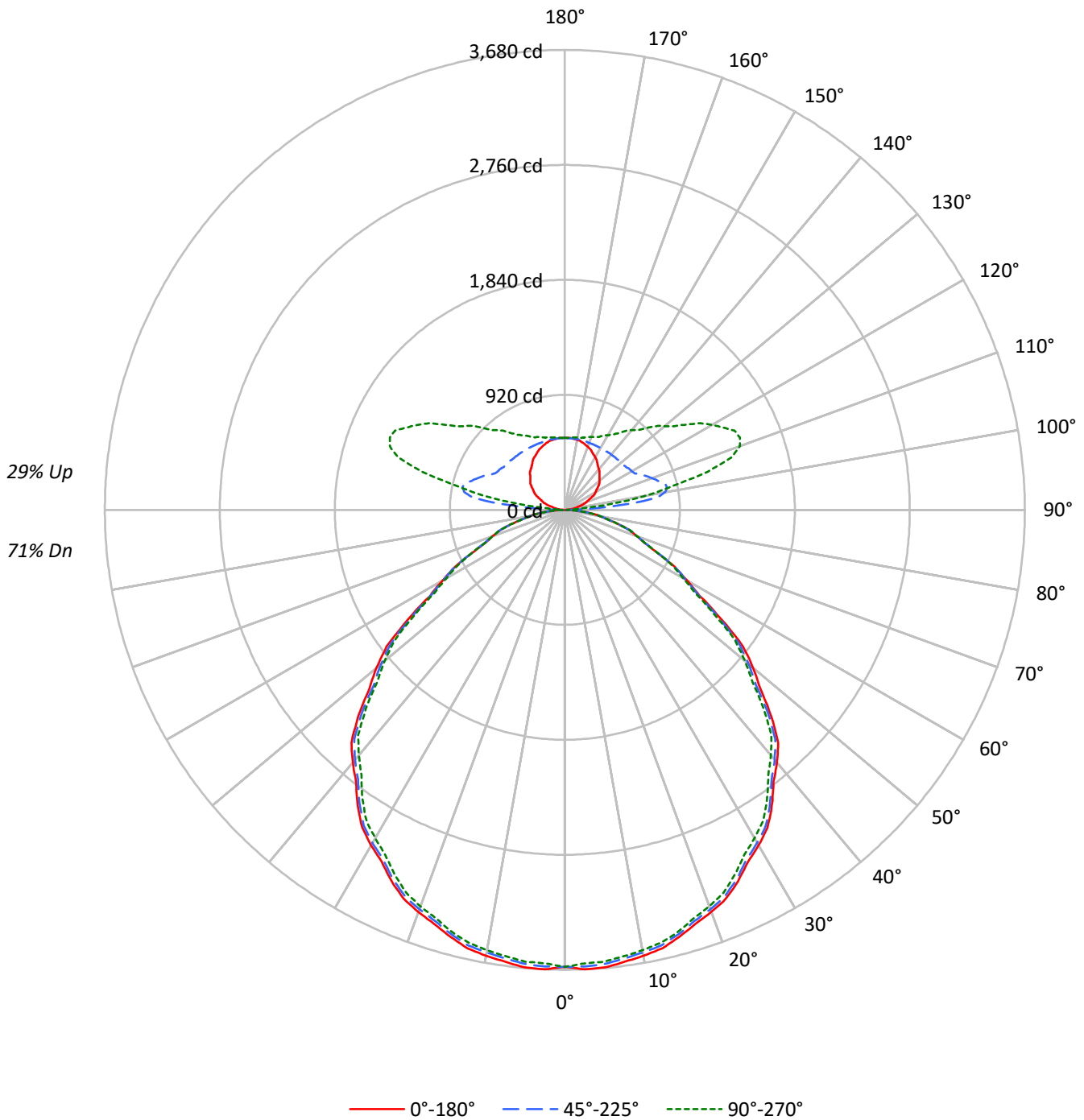
Lumens per Lamp: N/A
Luminaire Lumens: 12904.8 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 114.8
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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	67	66	64	64	64	64	60	
2	94	87	80	75	89	82	77	72	74	70	66	67	63	60	60	57	55	55	55	55	51	
3	86	77	69	63	81	73	66	61	66	60	56	59	55	52	53	50	47	47	47	47	44	
4	79	68	60	54	75	65	58	52	59	53	48	53	48	45	48	44	41	41	41	41	38	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	43	39	36	36	36	36	33	
6	67	55	47	41	63	52	45	39	48	41	37	43	38	34	39	35	32	32	32	32	29	
7	62	50	42	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26	
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	25	25	25	25	23	
9	54	41	34	29	51	40	33	28	37	30	26	33	28	25	31	26	23	23	23	23	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	21	21	21	19	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16870	16870	16870
5°	17022	16891	16804
10°	16968	16850	16762
15°	16894	16788	16698
20°	16809	16700	16577
25°	16691	16578	16386
30°	16510	16393	16158
35°	16267	16125	15894
40°	15896	15725	15440
45°	15248	14981	14672
50°	14106	13767	13496
55°	12313	12033	11780
60°	10375	10288	10084
65°	8974	9009	8940
70°	8242	8284	8284
75°	7915	7915	7973
80°	7446	7531	7446
85°	6002	6669	6669



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.8	2.7
10°-20°	989.5	7.7
20°-30°	1492.4	11.6
30°-40°	1778.2	13.8
40°-50°	1753.1	13.6
50°-60°	1339.8	10.4
60°-70°	829.1	6.4
70°-80°	470.9	3.6
80°-90°	145.5	1.1
90°-100°	276.5	2.1
100°-110°	751.0	5.8
110°-120°	772.2	6.0
120°-130°	617.4	4.8
130°-140°	485.1	3.8
140°-150°	372.0	2.9
150°-160°	267.5	2.1
160°-170°	163.6	1.3
170°-180°	55.1	0.4
0°-30°	2827.7	21.9
0°-40°	4605.9	35.7
0°-60°	7698.9	59.7
0°-90°	9144.4	70.9
90°-120°	1799.7	13.9
90°-150°	3274.1	25.4
90°-180°	3760.0	29.1
0°-180°	12904.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3657	3657	3657	3657	3657	
5°	3676	3636	3648	3635	3629	349
15°	3537	3500	3515	3503	3496	998
25°	3279	3239	3257	3222	3219	1509
35°	2888	2855	2863	2825	2822	1803
45°	2337	2306	2296	2255	2249	1791
55°	1531	1506	1496	1471	1465	1372
65°	822	816	825	819	819	833
75°	444	444	444	447	447	469
85°	113	120	126	126	126	132
90°	2	7	13	17	17	7
95°	41	151	482	210	141	43
105°	133	208	826	1258	1183	142
115°	237	288	661	1315	1498	234
125°	326	371	598	1008	1189	291
135°	393	436	582	821	926	304
145°	454	486	574	698	750	285
155°	513	531	570	626	644	237
165°	556	563	572	596	598	157
175°	576	578	574	581	580	55
180°	576	576	576	576	576	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3657.0	3657.0	3657.0	3657.0	3657.0
2.5°	3679.7	3647.7	3657.0	3649.1	3631.8
5°	3675.9	3635.9	3647.6	3634.9	3628.7
7.5°	3647.6	3608.2	3619.9	3607.2	3603.5
10°	3622.4	3585.4	3597.2	3584.5	3578.3
12.5°	3594.7	3555.3	3569.5	3554.2	3548.1
15°	3537.3	3500.4	3515.3	3502.6	3496.4
17.5°	3474.3	3434.9	3449.8	3435.1	3427.1
20°	3424.0	3387.0	3401.9	3379.8	3376.7
22.5°	3368.5	3331.6	3346.5	3316.8	3316.2
25°	3279.1	3239.0	3257.0	3222.3	3219.2
27.5°	3172.6	3135.6	3150.5	3115.2	3111.5
30°	3099.5	3062.6	3077.5	3039.5	3033.4
32.5°	3016.4	2981.9	2994.3	2956.4	2952.7
35°	2888.5	2854.6	2863.3	2825.4	2822.3
37.5°	2742.9	2712.1	2717.1	2675.5	2672.4
40°	2639.6	2608.8	2611.3	2567.1	2564.0
42.5°	2526.2	2495.4	2492.8	2448.7	2445.6
45°	2337.2	2306.4	2296.3	2255.2	2249.0
47.5°	2121.8	2091.0	2072.0	2038.5	2034.2
50°	1965.5	1934.7	1918.3	1889.7	1880.5
52.5°	1796.7	1765.9	1752.0	1725.9	1716.7
55°	1530.9	1506.2	1496.2	1470.9	1464.7
57.5°	1278.2	1261.6	1258.7	1234.1	1231.6
60°	1124.5	1115.3	1115.1	1093.0	1093.0
62.5°	993.5	986.7	991.6	977.0	974.6
65°	822.1	816.0	825.3	819.0	819.0
67.5°	686.7	686.7	692.4	689.8	689.8
70°	611.1	611.1	614.2	614.2	614.2
72.5°	543.0	540.6	548.7	548.7	546.2
75°	444.1	444.1	444.1	447.3	447.3
77.5°	345.9	346.5	349.0	348.3	345.9
80°	280.3	283.4	283.5	280.3	280.3
82.5°	214.8	217.9	218.0	217.3	214.8
85°	113.4	119.6	126.0	126.0	126.0
87.5°	33.1	44.1	53.0	53.7	51.2
90°	1.9	7.3	13.0	16.7	16.7
92.5°	16.7	75.7	131.5	56.5	47.8
95°	40.7	151.2	481.5	209.5	140.7
97.5°	67.4	167.0	738.1	574.3	403.3
100°	85.2	177.5	816.7	827.8	668.5
102.5°	103.0	188.1	837.4	1023.8	883.3
105°	133.3	207.6	825.9	1257.5	1183.3
107.5°	164.8	230.4	778.1	1378.2	1398.9
110°	187.0	246.8	742.6	1402.0	1490.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	206.3	263.1	707.0	1382.3	1515.9
115°	237.0	287.7	661.1	1315.2	1498.1
117.5°	265.9	314.4	631.8	1220.2	1426.3
120°	285.2	332.3	618.5	1156.5	1361.1
122.5°	301.5	348.6	609.6	1092.6	1290.0
125°	325.9	371.2	598.1	1007.8	1188.9
127.5°	347.8	392.7	591.8	943.5	1098.9
130°	361.1	404.6	588.9	903.2	1042.6
132.5°	374.4	417.9	585.9	868.7	992.2
135°	392.6	436.0	581.5	820.9	925.9
137.5°	412.2	451.7	579.2	778.7	867.0
140°	424.1	462.1	577.8	751.8	831.5
142.5°	435.9	471.0	576.3	730.8	797.4
145°	453.7	486.3	574.1	697.5	750.0
147.5°	473.7	501.6	572.2	671.3	712.6
150°	487.0	510.6	572.2	656.3	688.9
152.5°	497.4	518.0	570.7	642.8	669.6
155°	513.0	531.1	570.4	626.3	644.4
157.5°	528.1	542.3	570.4	615.1	628.9
160°	537.0	549.7	570.4	607.6	618.5
162.5°	545.9	555.7	571.8	601.7	609.6
165°	555.5	562.8	572.2	596.3	598.1
167.5°	565.5	569.2	574.1	590.0	591.5
170°	568.5	572.1	574.1	587.0	587.0
172.5°	571.5	573.6	574.1	584.1	584.1
175°	575.9	577.7	574.1	581.4	579.6
177.5°	577.4	577.4	573.0	578.8	575.9
180°	575.9	575.9	575.9	575.9	575.9

(END OF REPORT)