

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: P563924

Luminaire Tested: **SQ4-PR1-025U-125D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563924
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PR1-025U-125D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

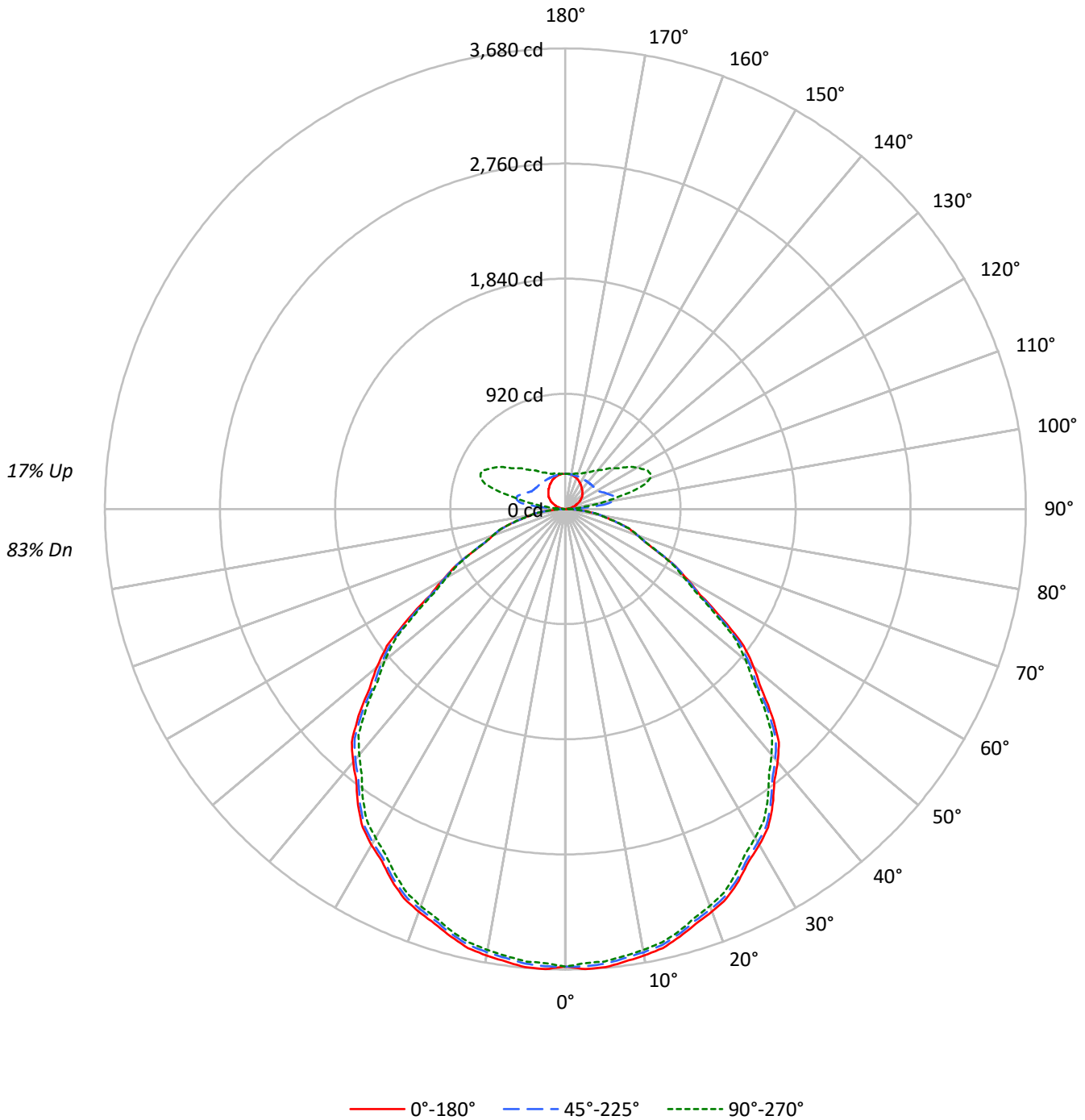
Lumens per Lamp: N/A
Luminaire Lumens: 10967.1 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 101.6
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	97	89	83	78	93	86	80	75	80	75	71	74	70	67	69	66	63	60
3	89	79	71	65	85	76	69	64	71	65	60	66	61	57	61	58	54	52
4	81	70	62	56	78	68	60	55	63	57	52	59	54	50	55	51	47	45
5	75	63	55	48	72	61	53	47	57	50	45	53	48	43	50	45	41	39
6	69	57	48	42	66	55	47	42	52	45	40	48	43	38	45	41	37	34
7	64	52	43	37	62	50	42	37	47	40	35	44	38	34	42	37	33	31
8	60	47	39	33	57	46	38	33	43	36	32	41	35	31	38	33	29	27
9	56	43	35	30	54	42	35	30	40	33	29	37	32	28	35	30	27	25
10	52	40	32	27	50	39	32	27	37	30	26	35	29	25	33	28	24	22

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	3.2
10°-20°	989.5	9.0
20°-30°	1492.4	13.6
30°-40°	1778.2	16.2
40°-50°	1753.1	16.0
50°-60°	1339.8	12.2
60°-70°	829.1	7.6
70°-80°	470.9	4.3
80°-90°	144.8	1.3
90°-100°	137.1	1.3
100°-110°	360.4	3.3
110°-120°	373.8	3.4
120°-130°	299.8	2.7
130°-140°	235.2	2.1
140°-150°	180.5	1.6
150°-160°	130.0	1.2
160°-170°	79.6	0.7
170°-180°	26.9	0.2
0°-30°	2827.7	25.8
0°-40°	4605.9	42.0
0°-60°	7698.9	70.2
0°-90°	9143.7	83.4
90°-120°	871.3	7.9
90°-150°	1586.9	14.5
90°-180°	1823.0	16.6
0°-180°	10967.1	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	5	14	7	7	6
95°	18	71	236	122	83	20
105°	65	98	398	605	564	69
115°	115	140	319	637	727	114
125°	160	180	290	491	579	142
135°	191	211	281	396	449	148
145°	222	236	278	338	364	139
155°	251	258	278	305	314	115
165°	270	274	278	289	292	76
175°	281	281	280	283	283	27
180°	281	281	281	281	281	

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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	43.7	53.3	51.8	49.3
90°	1.8	5.3	14.4	7.2	7.2
92.5°	7.6	36.5	80.8	35.8	23.1
95°	18.0	70.9	236.2	121.7	83.0
97.5°	31.4	77.9	353.5	281.1	207.0
100°	41.5	83.8	389.5	394.7	306.6
102.5°	50.1	89.6	399.6	491.7	416.2
105°	64.9	98.4	398.5	605.0	564.5
107.5°	80.1	111.1	375.8	663.9	673.7
110°	90.2	118.4	357.1	679.0	721.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	100.3	127.1	339.8	669.4	734.3
115°	115.4	140.1	319.2	636.8	726.8
117.5°	130.2	152.8	305.1	591.6	691.4
120°	138.9	160.0	299.4	561.3	658.2
122.5°	147.5	168.7	295.0	530.9	626.5
125°	160.5	179.9	290.3	490.7	578.9
127.5°	171.0	190.7	286.4	458.3	532.7
130°	176.7	197.9	284.9	438.0	506.7
132.5°	182.5	203.7	283.5	420.5	482.2
135°	191.2	210.6	281.3	396.1	449.0
137.5°	200.2	219.2	281.0	377.9	421.3
140°	207.4	225.0	279.5	363.4	404.0
142.5°	213.2	229.4	279.5	353.2	388.1
145°	221.8	235.9	277.7	337.8	364.3
147.5°	230.5	244.2	277.7	325.1	347.0
150°	236.2	248.6	277.7	317.8	335.4
152.5°	242.0	251.5	277.7	311.9	325.3
155°	250.7	257.7	277.7	305.0	313.8
157.5°	257.2	263.9	277.7	298.8	305.1
160°	261.5	266.8	277.7	295.8	299.4
162.5°	265.8	269.7	277.7	292.9	296.5
165°	270.5	274.0	277.7	288.6	292.1
167.5°	274.8	276.6	279.5	286.8	288.2
170°	277.7	279.5	279.5	286.7	286.7
172.5°	279.2	279.5	279.5	285.3	283.9
175°	281.3	281.3	279.5	283.1	283.1
177.5°	281.3	281.3	279.9	282.7	281.3
180°	281.3	281.3	281.3	281.3	281.3

(END OF REPORT)