

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: P563900

Luminaire Tested: **SQ4-PR1-025U-100D-830-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563900
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-100D-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

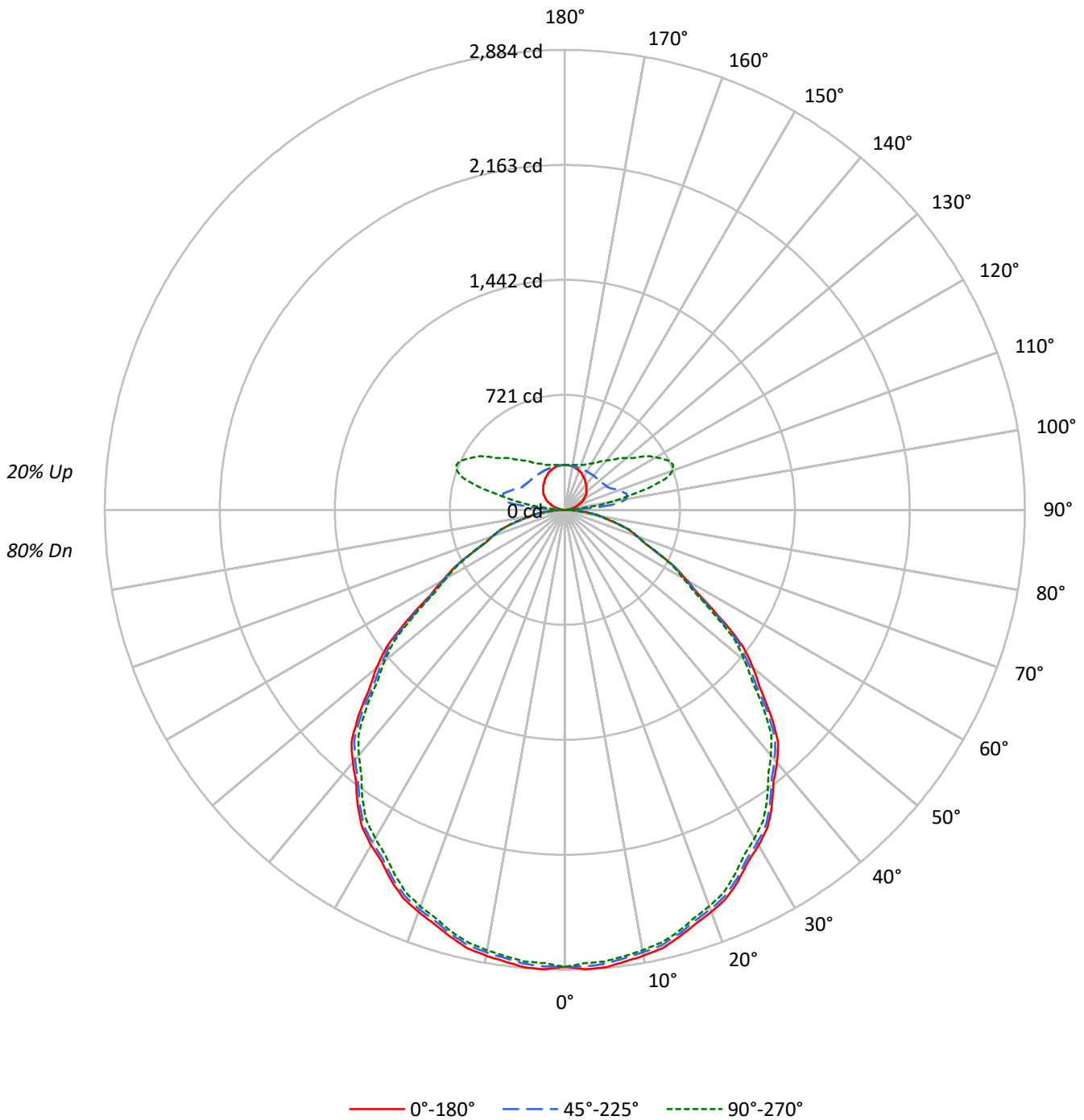
Lumens per Lamp: N/A
Luminaire Lumens: 8988.9 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 82.2
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	80				
1	105	101	97	93	100	96	93	90	88	86	83	81	79	77	74	73	71	68				
2	96	88	82	77	92	85	79	74	78	74	70	72	68	65	66	63	61	58				
3	88	78	71	65	84	75	68	63	69	64	59	64	59	56	59	55	52	49				
4	81	70	61	55	77	67	60	54	62	56	51	57	52	48	53	49	45	43				
5	74	62	54	48	71	60	52	47	56	49	44	52	46	42	48	43	40	37				
6	69	56	48	42	66	54	47	41	50	44	39	47	41	37	44	39	35	33				
7	64	51	43	37	61	49	42	36	46	39	35	43	37	33	40	35	31	29				
8	59	47	39	33	57	45	38	32	42	36	31	39	34	30	37	32	28	26				
9	55	43	35	30	53	41	34	29	39	32	28	36	31	27	34	29	26	24				
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	31	27	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13220	13220	13220
5°	13339	13236	13167
10°	13297	13204	13135
15°	13238	13156	13085
20°	13172	13087	12990
25°	13079	12991	12840
30°	12938	12846	12662
35°	12747	12636	12455
40°	12456	12322	12099
45°	11949	11739	11498
50°	11054	10788	10576
55°	9648	9430	9231
60°	8130	8062	7902
65°	7032	7059	7006
70°	6459	6492	6492
75°	6203	6203	6247
80°	5837	5900	5837
85°	4705	5224	5224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.0	3.0
10°-20°	775.3	8.6
20°-30°	1169.5	13.0
30°-40°	1393.4	15.5
40°-50°	1373.8	15.3
50°-60°	1049.9	11.7
60°-70°	649.7	7.2
70°-80°	369.0	4.1
80°-90°	113.8	1.3
90°-100°	137.1	1.5
100°-110°	360.4	4.0
110°-120°	373.8	4.2
120°-130°	299.8	3.3
130°-140°	235.2	2.6
140°-150°	180.5	2.0
150°-160°	130.0	1.4
160°-170°	79.6	0.9
170°-180°	26.9	0.3
0°-30°	2215.8	24.7
0°-40°	3609.2	40.2
0°-60°	6033.0	67.1
0°-90°	7165.5	79.7
90°-120°	871.3	9.7
90°-150°	1586.9	17.7
90°-180°	1823.0	20.3
0°-180°	8988.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2866	2866	2866	2866	2866	
5°	2880	2849	2858	2848	2844	273
15°	2772	2743	2755	2745	2740	782
25°	2570	2538	2552	2525	2523	1182
35°	2264	2237	2244	2214	2212	1413
45°	1832	1807	1799	1767	1762	1403
55°	1200	1180	1172	1153	1148	1075
65°	644	639	647	642	642	653
75°	348	348	348	350	350	368
85°	89	94	99	99	99	103
90°	2	5	14	7	7	5
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°	2865.7	2865.7	2865.7	2865.7	2865.7
2.5°	2883.5	2858.4	2865.7	2859.5	2846.0
5°	2880.5	2849.2	2858.3	2848.3	2843.5
7.5°	2858.3	2827.4	2836.6	2826.7	2823.8
10°	2838.6	2809.6	2818.8	2808.8	2804.0
12.5°	2816.8	2786.0	2797.1	2785.1	2780.3
15°	2771.9	2743.0	2754.6	2744.7	2739.8
17.5°	2722.6	2691.7	2703.3	2691.8	2685.5
20°	2683.1	2654.1	2665.8	2648.5	2646.0
22.5°	2639.6	2610.7	2622.3	2599.1	2598.6
25°	2569.5	2538.1	2552.2	2525.0	2522.6
27.5°	2486.1	2457.1	2468.8	2441.1	2438.2
30°	2428.8	2399.9	2411.6	2381.8	2377.0
32.5°	2363.7	2336.6	2346.4	2316.7	2313.8
35°	2263.5	2236.9	2243.7	2214.0	2211.6
37.5°	2149.4	2125.3	2129.2	2096.5	2094.1
40°	2068.5	2044.3	2046.2	2011.6	2009.2
42.5°	1979.6	1955.5	1953.4	1918.8	1916.4
45°	1831.5	1807.4	1799.4	1767.2	1762.4
47.5°	1662.7	1638.5	1623.7	1597.4	1594.0
50°	1540.2	1516.1	1503.2	1480.8	1473.6
52.5°	1407.9	1383.8	1372.9	1352.5	1345.2
55°	1199.6	1180.3	1172.5	1152.6	1147.8
57.5°	1001.6	988.6	986.3	967.0	965.1
60°	881.2	874.0	873.8	856.5	856.5
62.5°	778.5	773.2	777.0	765.6	763.7
65°	644.2	639.4	646.7	641.8	641.8
67.5°	538.1	538.1	542.5	540.6	540.6
70°	478.9	478.9	481.3	481.3	481.3
72.5°	425.5	423.6	430.0	429.9	428.0
75°	348.0	348.0	348.0	350.5	350.5
77.5°	271.0	271.5	273.5	273.0	271.0
80°	219.7	222.1	222.1	219.7	219.7
82.5°	168.3	170.8	170.8	170.3	168.3
85°	88.9	93.7	98.7	98.7	98.7
87.5°	26.0	34.5	42.4	40.9	39.0
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)