

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: P563873

Luminaire Tested: **SQ4-PR1-025U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563873
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-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

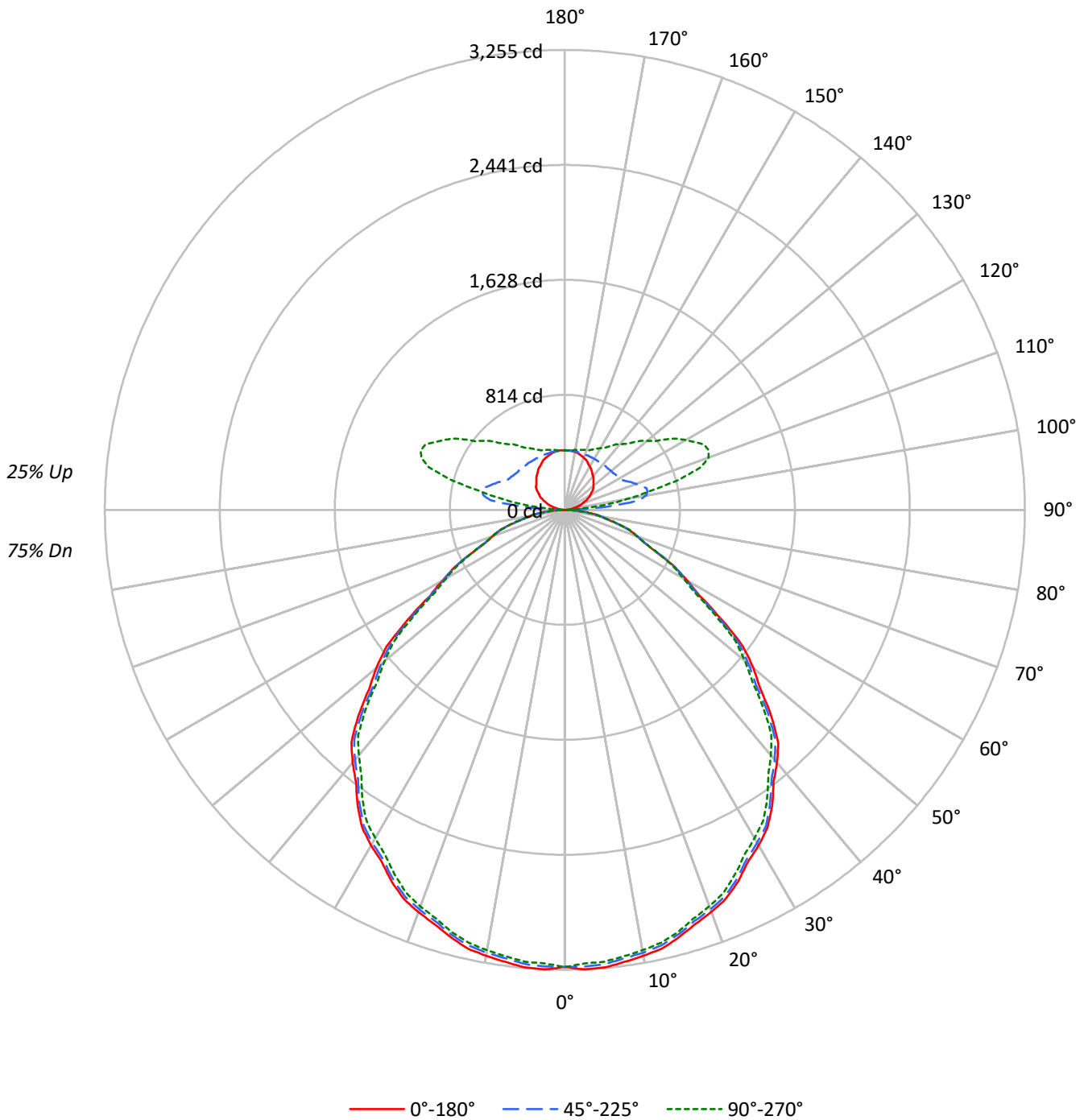
Lumens per Lamp: N/A
Luminaire Lumens: 10825.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 94.8
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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79	75				
1	104	99	96	92	99	95	91	88	86	83	81	78	76	74	70	69	67	64				
2	95	87	81	76	90	83	78	73	76	71	68	69	65	62	62	60	58	54				
3	87	77	70	64	82	74	67	62	67	62	57	61	57	53	56	52	49	46				
4	80	69	61	54	76	66	58	53	60	54	49	55	50	46	50	46	43	40				
5	73	62	53	47	70	59	51	46	54	48	43	50	44	40	45	41	38	35				
6	68	55	47	41	64	53	46	40	49	43	38	45	40	35	41	37	33	31				
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30	27				
8	58	46	38	32	56	44	37	32	41	34	30	38	32	28	35	30	27	25				
9	55	42	34	29	52	40	33	28	37	31	27	35	29	26	32	27	24	22				
10	51	39	31	26	49	37	30	26	35	29	24	32	27	23	30	25	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9950	9950	9950
5°	10039	9962	9910
10°	10007	9938	9885
15°	9963	9901	9848
20°	9913	9849	9776
25°	9843	9777	9664
30°	9737	9668	9529
35°	9594	9510	9374
40°	9375	9274	9106
45°	8993	8835	8653
50°	8319	8119	7959
55°	7261	7097	6947
60°	6119	6067	5947
65°	5293	5313	5272
70°	4861	4886	4886
75°	4669	4669	4702
80°	4392	4442	4392
85°	3539	3934	3934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.9	2.8
10°-20°	875.3	8.1
20°-30°	1320.2	12.2
30°-40°	1573.1	14.5
40°-50°	1550.9	14.3
50°-60°	1185.3	10.9
60°-70°	733.5	6.8
70°-80°	416.6	3.8
80°-90°	129.0	1.2
90°-100°	205.7	1.9
100°-110°	540.7	5.0
110°-120°	560.7	5.2
120°-130°	449.7	4.2
130°-140°	352.9	3.3
140°-150°	270.8	2.5
150°-160°	195.1	1.8
160°-170°	119.3	1.1
170°-180°	40.3	0.4
0°-30°	2501.5	23.1
0°-40°	4074.6	37.6
0°-60°	6810.8	62.9
0°-90°	8089.9	74.7
90°-120°	1307.0	12.1
90°-150°	2380.4	22.0
90°-180°	2735.0	25.3
0°-180°	10825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3235	3235	3235	3235	3235	
5°	3252	3216	3227	3216	3210	309
15°	3129	3097	3110	3098	3093	883
25°	2901	2865	2881	2851	2848	1335
35°	2555	2525	2533	2500	2497	1595
45°	2068	2040	2031	1995	1990	1584
55°	1354	1332	1324	1301	1296	1213
65°	727	722	730	724	724	737
75°	393	393	393	396	396	415
85°	100	106	112	112	112	117
90°	3	8	22	11	11	6
95°	27	106	354	183	124	30
105°	97	148	598	908	847	103
115°	173	210	479	955	1090	171
125°	241	270	436	736	868	214
135°	287	316	422	594	674	222
145°	333	354	417	507	546	208
155°	376	387	417	458	471	173
165°	406	411	417	433	438	115
175°	422	422	419	425	425	40
180°	422	422	422	422	422	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3235.2	3235.2	3235.2	3235.2	3235.2
2.5°	3255.2	3226.9	3235.2	3228.1	3212.9
5°	3251.9	3216.5	3226.8	3215.5	3210.1
7.5°	3226.8	3191.9	3202.3	3191.1	3187.8
10°	3204.5	3171.8	3182.2	3171.0	3165.5
12.5°	3180.0	3145.1	3157.7	3144.2	3138.8
15°	3129.3	3096.6	3109.8	3098.5	3093.1
17.5°	3073.6	3038.7	3051.8	3038.8	3031.8
20°	3029.0	2996.3	3009.5	2989.9	2987.2
22.5°	2979.9	2947.2	2960.4	2934.2	2933.7
25°	2900.8	2865.4	2881.3	2850.6	2847.8
27.5°	2806.6	2773.9	2787.1	2755.8	2752.5
30°	2742.0	2709.3	2722.4	2688.9	2683.4
32.5°	2668.4	2637.9	2648.9	2615.4	2612.1
35°	2555.3	2525.3	2533.0	2499.5	2496.7
37.5°	2426.5	2399.3	2403.7	2366.8	2364.1
40°	2335.1	2307.9	2310.0	2271.0	2268.2
42.5°	2234.8	2207.6	2205.3	2166.2	2163.5
45°	2067.6	2040.4	2031.4	1995.0	1989.6
47.5°	1877.0	1849.8	1833.0	1803.4	1799.5
50°	1738.8	1711.6	1697.0	1671.7	1663.6
52.5°	1589.4	1562.2	1549.9	1526.8	1518.7
55°	1354.3	1332.5	1323.6	1301.2	1295.7
57.5°	1130.8	1116.1	1113.5	1091.7	1089.5
60°	994.8	986.6	986.4	966.9	966.9
62.5°	878.9	872.9	877.2	864.3	862.2
65°	727.3	721.8	730.1	724.5	724.5
67.5°	607.5	607.5	612.5	610.3	610.3
70°	540.6	540.6	543.4	543.4	543.4
72.5°	480.4	478.2	485.4	485.4	483.2
75°	392.9	392.9	392.9	395.7	395.7
77.5°	306.0	306.5	308.7	308.1	306.0
80°	248.0	250.7	250.8	248.0	248.0
82.5°	190.0	192.8	192.8	192.2	190.0
85°	100.3	105.8	111.5	111.5	111.5
87.5°	29.5	39.3	48.9	46.7	44.5
90°	2.7	8.0	21.6	10.8	10.8
92.5°	11.4	54.7	121.2	53.7	34.6
95°	27.1	106.4	354.4	182.6	124.4
97.5°	47.1	116.9	530.2	421.6	310.5
100°	62.2	125.7	584.3	592.1	459.9
102.5°	75.2	134.4	599.4	737.5	624.3
105°	97.4	147.6	597.8	907.5	846.7
107.5°	120.1	166.7	563.7	995.8	1010.6
110°	135.3	177.6	535.6	1018.5	1082.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.4	190.6	509.6	1004.2	1101.5
115°	173.1	210.2	478.8	955.2	1090.1
117.5°	195.3	229.2	457.7	887.4	1037.1
120°	208.3	240.0	449.0	841.9	987.3
122.5°	221.3	253.0	442.5	796.4	939.7
125°	240.8	269.8	435.5	736.1	868.3
127.5°	256.4	286.1	429.6	687.5	799.1
130°	265.1	296.8	427.4	657.0	760.1
132.5°	273.8	305.5	425.2	630.8	723.3
135°	286.7	315.8	422.0	594.2	673.6
137.5°	300.3	328.8	421.4	566.8	631.9
140°	311.1	337.5	419.3	545.1	605.9
142.5°	319.7	344.1	419.3	529.8	582.1
145°	332.7	353.9	416.6	506.7	546.4
147.5°	345.7	366.3	416.6	487.7	520.5
150°	354.4	372.9	416.6	476.7	503.1
152.5°	363.0	377.3	416.6	467.9	488.0
155°	376.0	386.6	416.6	457.5	470.7
157.5°	385.7	395.8	416.6	448.2	457.7
160°	392.2	400.2	416.6	443.8	449.0
162.5°	398.7	404.5	416.6	439.4	444.7
165°	405.8	411.0	416.6	432.9	438.2
167.5°	412.3	414.9	419.3	430.2	432.3
170°	416.6	419.2	419.3	430.1	430.1
172.5°	418.7	419.3	419.3	427.9	425.8
175°	422.0	422.0	419.3	424.7	424.7
177.5°	422.0	422.0	419.8	424.1	422.0
180°	422.0	422.0	422.0	422.0	422.0

(END OF REPORT)