

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: P564545

Luminaire Tested: **SQ4-PW1-025U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564545
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

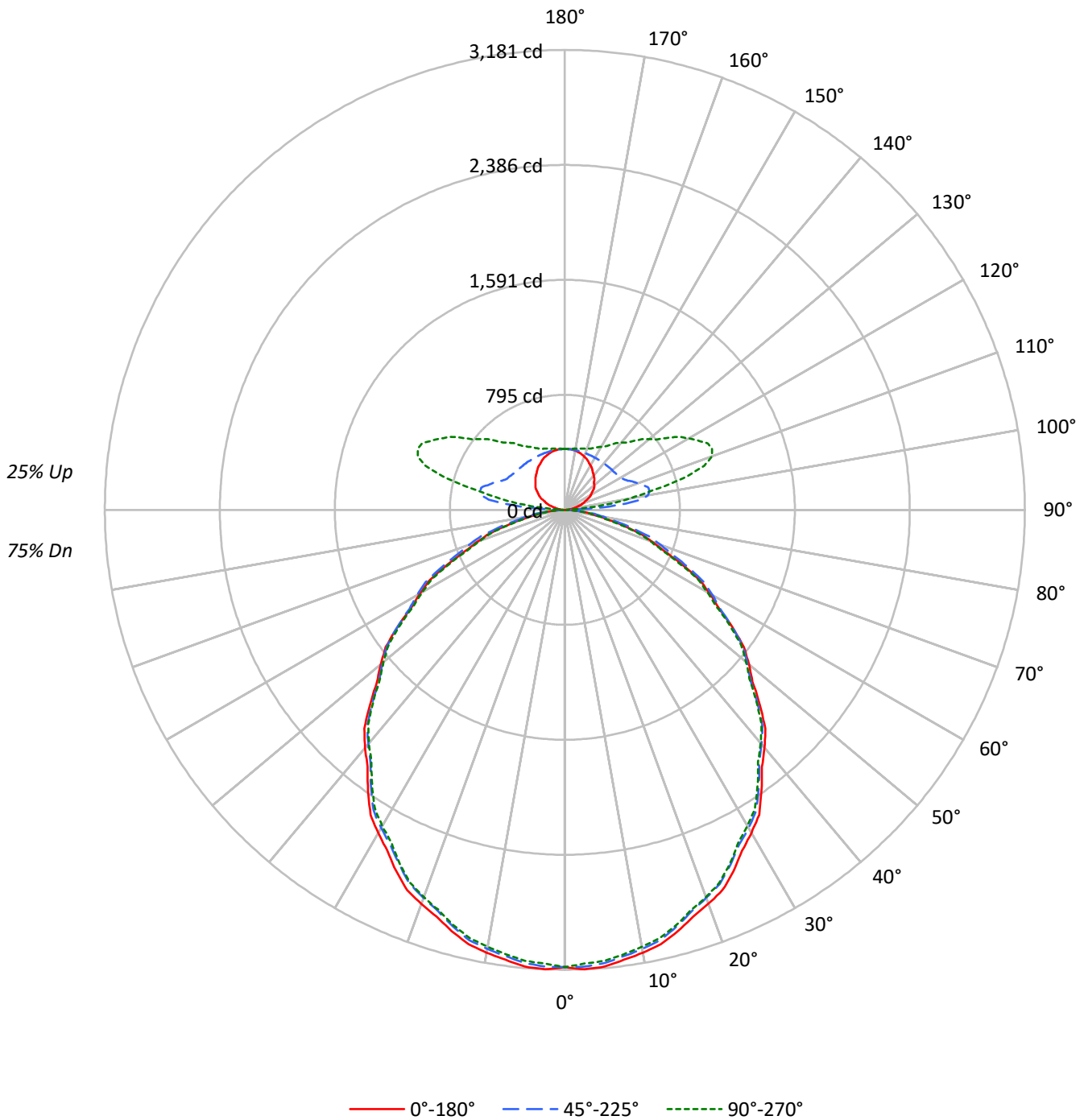
Lumens per Lamp: N/A
Luminaire Lumens: 10784.2 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 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	0
RCR																		
0	113	113	113	113	107	107	107	107	97	97	97	87	87	87	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	62	62	59	57	53
3	86	76	69	63	82	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42	39
5	73	61	52	46	69	58	50	44	53	47	42	48	43	39	44	40	36	34
6	67	54	46	40	64	52	44	39	48	41	37	44	38	34	40	36	32	30
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29	26
8	58	45	37	31	55	43	36	31	40	33	29	37	31	27	34	29	26	23
9	54	41	33	28	51	40	32	27	37	30	26	34	28	25	31	27	23	21
10	50	38	30	25	48	37	30	25	34	28	24	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9727	9727	9727
5°	9790	9712	9669
10°	9711	9633	9581
15°	9608	9502	9466
20°	9494	9348	9329
25°	9361	9191	9163
30°	9163	9025	8965
35°	8903	8777	8725
40°	8625	8491	8457
45°	8290	8181	8144
50°	7946	7879	7826
55°	7575	7575	7456
60°	7113	7250	6993
65°	6509	6834	6347
70°	5738	6289	5588
75°	4900	5629	4768
80°	3801	4738	3850
85°	2459	3638	3246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.8	2.8
10°-20°	840.8	7.8
20°-30°	1247.2	11.6
30°-40°	1459.4	13.5
40°-50°	1452.9	13.5
50°-60°	1254.6	11.6
60°-70°	903.1	8.4
70°-80°	473.6	4.4
80°-90°	119.7	1.1
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°	2385.9	22.1
0°-40°	3845.2	35.7
0°-60°	6552.7	60.8
0°-90°	8049.1	74.6
90°-120°	1307.0	12.1
90°-150°	2380.4	22.1
90°-180°	2735.0	25.4
0°-180°	10784.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3163	3163	3163	3163	3163	
5°	3171	3136	3146	3138	3132	300
15°	3018	2980	2984	2979	2973	851
25°	2759	2712	2708	2692	2700	1269
35°	2371	2339	2338	2316	2324	1482
45°	1906	1890	1881	1875	1873	1471
55°	1413	1410	1413	1393	1390	1261
65°	894	922	939	902	872	886
75°	412	451	474	442	401	442
85°	70	92	103	97	92	92
90°	3	8	22	11	11	5
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°	3162.7	3162.7	3162.7	3162.7	3162.7
2.5°	3180.6	3154.4	3162.7	3155.7	3140.4
5°	3171.1	3135.7	3146.0	3137.5	3132.1
7.5°	3138.8	3106.1	3113.7	3104.7	3101.4
10°	3109.8	3077.1	3084.7	3073.4	3068.0
12.5°	3076.3	3041.5	3049.0	3037.8	3034.6
15°	3017.8	2979.7	2984.4	2978.7	2973.2
17.5°	2949.8	2911.1	2911.9	2903.0	2901.9
20°	2900.8	2859.9	2856.2	2845.2	2850.6
22.5°	2847.3	2804.2	2800.5	2785.0	2792.7
25°	2758.7	2712.4	2708.5	2692.0	2700.2
27.5°	2656.1	2610.4	2610.4	2587.2	2595.9
30°	2580.3	2536.7	2541.3	2513.7	2524.6
32.5°	2500.1	2460.9	2463.3	2435.7	2446.6
35°	2371.4	2338.7	2337.9	2315.8	2324.0
37.5°	2239.8	2210.9	2206.4	2193.6	2195.8
40°	2148.4	2123.9	2115.0	2106.6	2106.6
42.5°	2052.6	2030.2	2021.4	2015.2	2013.0
45°	1906.0	1889.7	1880.9	1875.3	1872.6
47.5°	1761.1	1745.8	1738.2	1734.3	1731.6
50°	1660.8	1649.9	1646.8	1638.4	1635.7
52.5°	1560.5	1553.9	1551.0	1540.3	1537.6
55°	1412.8	1410.1	1412.8	1393.2	1390.5
57.5°	1259.0	1263.3	1272.3	1246.0	1239.5
60°	1156.4	1167.3	1178.7	1147.8	1136.9
62.5°	1051.6	1069.1	1085.1	1049.6	1034.4
65°	894.5	921.7	939.1	902.2	872.2
67.5°	742.9	776.7	797.5	757.7	723.9
70°	638.1	676.3	699.4	659.5	621.4
72.5°	546.7	589.2	608.0	570.4	532.2
75°	412.4	450.6	473.7	442.1	401.3
77.5°	292.6	328.6	347.8	320.2	286.5
80°	214.6	252.7	267.5	244.6	217.4
82.5°	152.1	183.8	193.9	180.1	161.6
85°	69.7	91.5	103.1	97.4	92.0
87.5°	18.4	34.7	46.7	44.6	46.7
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)