

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: P562529

Luminaire Tested: **SQ4-PC3-025U-075D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562529
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-025U-075D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

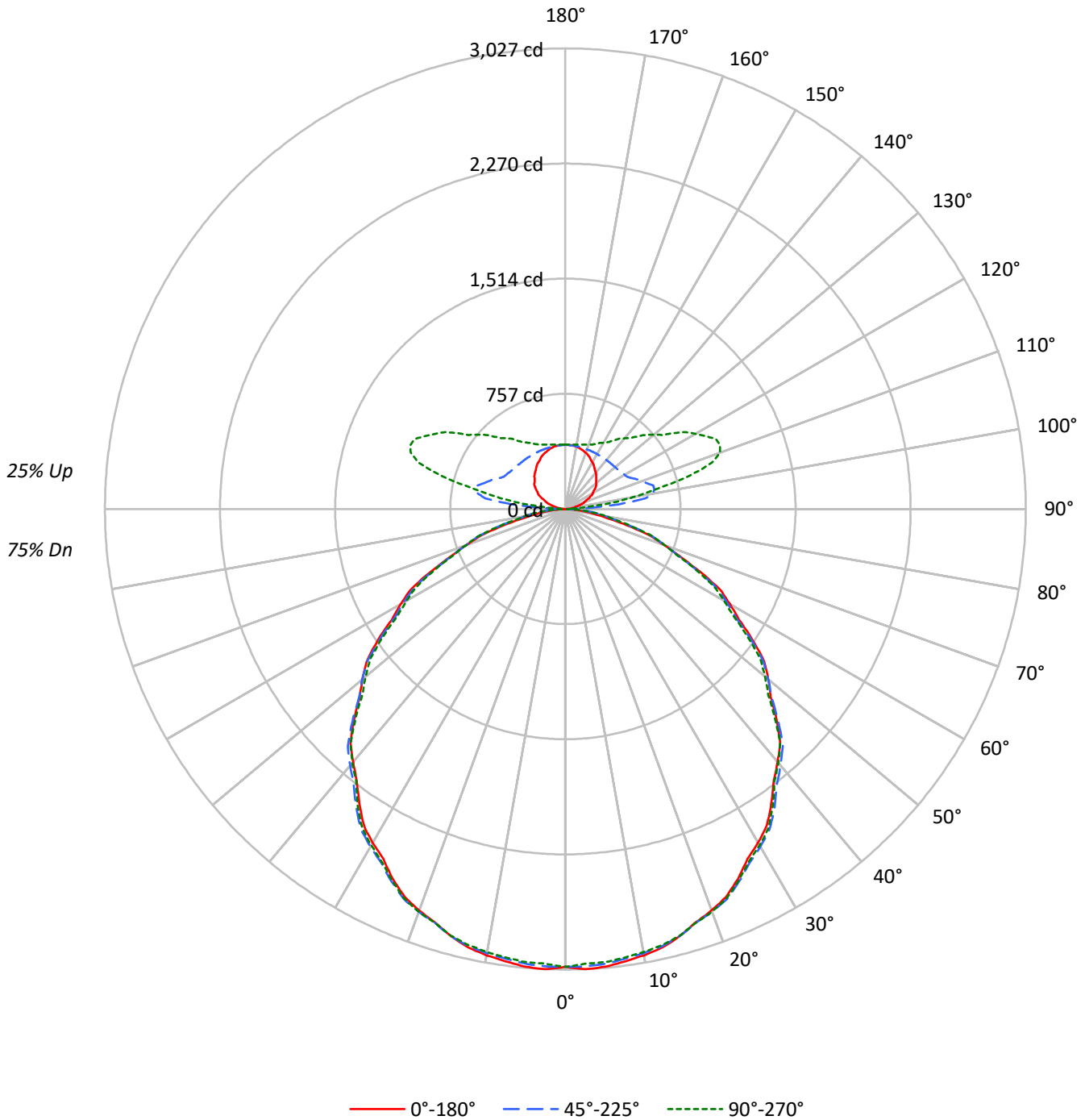
Lumens per Lamp: N/A
Luminaire Lumens: 10950.8 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	86	83	80	78	75	73	70	69	67	63
2	94	87	80	75	89	83	77	72	75	71	67	68	65	61	62	59	57	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	45	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	55	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	31	26	23	21
10	50	38	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9255	9255	9255
5°	9325	9265	9231
10°	9302	9259	9233
15°	9254	9254	9245
20°	9193	9220	9220
25°	9106	9172	9144
30°	8995	9104	9064
35°	8861	8997	8934
40°	8715	8838	8748
45°	8556	8617	8484
50°	8333	8333	8199
55°	8068	7963	7844
60°	7679	7524	7404
65°	7097	6955	6894
70°	6214	6264	6239
75°	5000	5530	5562
80°	3553	4688	4738
85°	2163	3934	3934



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.8	2.6
10°-20°	817.3	7.5
20°-30°	1237.7	11.3
30°-40°	1483.9	13.6
40°-50°	1513.1	13.8
50°-60°	1320.8	12.1
60°-70°	945.6	8.6
70°-80°	487.0	4.4
80°-90°	125.4	1.1
90°-100°	205.7	1.9
100°-110°	540.7	4.9
110°-120°	560.7	5.1
120°-130°	449.7	4.1
130°-140°	352.9	3.2
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°	2339.9	21.4
0°-40°	3823.8	34.9
0°-60°	6657.7	60.8
0°-90°	8215.7	75.0
90°-120°	1307.0	11.9
90°-150°	2380.4	21.7
90°-180°	2735.0	25.0
0°-180°	10950.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3010	3010	3010	3010	3010	
5°	3021	2991	3001	2993	2990	287
15°	2906	2882	2906	2906	2904	819
25°	2683	2664	2703	2695	2695	1235
35°	2360	2355	2396	2380	2380	1476
45°	1967	1962	1981	1956	1951	1514
55°	1505	1486	1485	1463	1463	1341
65°	975	954	956	947	947	965
75°	421	440	465	468	468	455
85°	61	94	112	114	112	83
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°	3009.5	3009.5	3009.5	3009.5	3009.5
2.5°	3027.3	3001.1	3009.5	3002.5	2991.6
5°	3020.6	2990.6	3001.1	2992.7	2990.0
7.5°	2998.9	2968.9	2982.7	2977.1	2974.4
10°	2978.8	2948.8	2964.9	2959.2	2956.5
12.5°	2952.1	2924.3	2942.6	2937.0	2936.5
15°	2906.4	2881.8	2906.4	2906.3	2903.6
17.5°	2849.0	2826.6	2852.9	2854.5	2852.9
20°	2808.8	2784.3	2817.2	2814.5	2817.2
22.5°	2759.8	2739.6	2774.8	2767.7	2770.4
25°	2683.4	2664.4	2702.9	2694.6	2694.6
27.5°	2593.2	2579.5	2621.6	2612.7	2612.7
30°	2533.0	2519.3	2563.6	2552.5	2552.5
32.5°	2466.1	2456.8	2499.0	2485.6	2485.6
35°	2360.2	2354.8	2396.4	2379.7	2379.7
37.5°	2251.0	2246.1	2283.9	2263.6	2257.1
40°	2170.7	2168.0	2201.4	2179.1	2179.1
42.5°	2090.5	2087.7	2116.7	2089.9	2089.9
45°	1967.3	1961.9	1981.2	1956.0	1950.6
47.5°	1833.0	1827.5	1839.7	1812.3	1809.6
50°	1741.6	1736.1	1741.6	1716.5	1713.7
52.5°	1648.0	1638.2	1639.0	1614.0	1613.4
55°	1504.7	1485.7	1485.2	1462.9	1462.9
57.5°	1353.1	1328.1	1330.3	1311.3	1308.6
60°	1248.4	1221.1	1223.3	1206.5	1203.8
62.5°	1145.8	1114.2	1120.7	1101.8	1101.2
65°	975.3	953.5	955.8	947.4	947.4
67.5°	811.4	791.3	805.9	799.2	798.6
70°	691.1	677.4	696.6	696.6	693.8
72.5°	579.6	579.1	603.0	603.0	604.7
75°	420.8	439.8	465.4	468.1	468.1
77.5°	280.9	314.7	342.7	343.8	343.3
80°	200.6	238.8	264.7	270.2	267.5
82.5°	136.0	176.3	197.8	203.4	200.6
85°	61.3	94.0	111.5	114.2	111.5
87.5°	18.4	39.1	48.9	46.6	42.3
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)