

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: P562537

Luminaire Tested: **SQ4-PC3-025U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562537
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

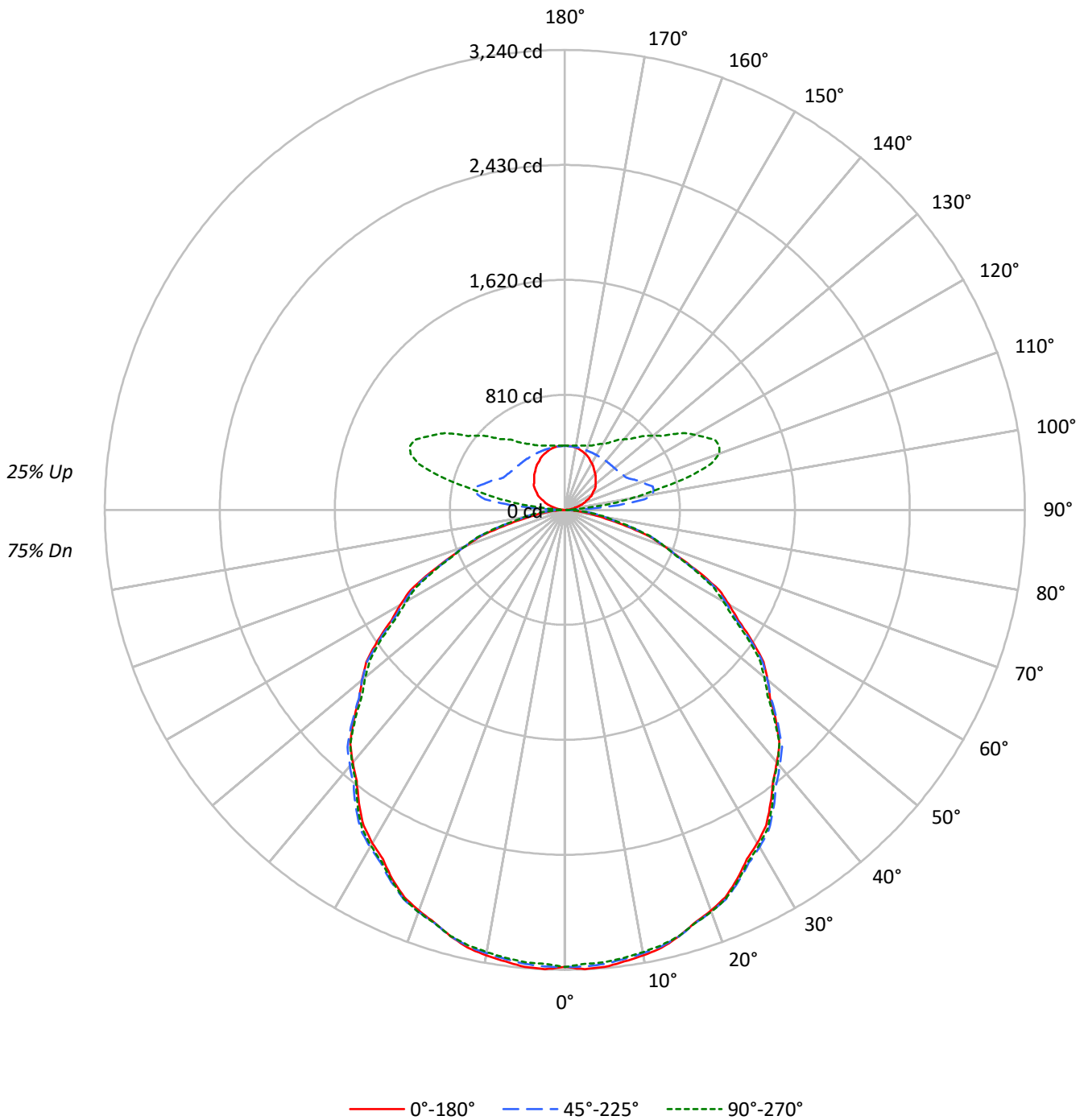
Lumens per Lamp: N/A
Luminaire Lumens: 11718.6 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

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	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	70	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°	9904	9904	9904
5°	9979	9914	9878
10°	9954	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9785
30°	9625	9742	9700
35°	9482	9628	9561
40°	9326	9457	9361
45°	9156	9221	9078
50°	8917	8917	8774
55°	8634	8522	8394
60°	8217	8052	7923
65°	7595	7443	7377
70°	6649	6703	6676
75°	5351	5917	5953
80°	3802	5017	5071
85°	2315	4210	4210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.8	2.6
10°-20°	874.6	7.5
20°-30°	1324.5	11.3
30°-40°	1587.9	13.6
40°-50°	1619.1	13.8
50°-60°	1413.4	12.1
60°-70°	1011.9	8.6
70°-80°	521.2	4.4
80°-90°	134.2	1.1
90°-100°	220.1	1.9
100°-110°	578.6	4.9
110°-120°	600.0	5.1
120°-130°	481.3	4.1
130°-140°	377.6	3.2
140°-150°	289.8	2.5
150°-160°	208.7	1.8
160°-170°	127.7	1.1
170°-180°	43.1	0.4
0°-30°	2503.9	21.4
0°-40°	4091.8	34.9
0°-60°	7124.4	60.8
0°-90°	8791.7	75.0
90°-120°	1398.7	11.9
90°-150°	2547.3	21.7
90°-180°	2927.0	25.0
0°-180°	11718.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3220	3220	3220	3220	3220	
5°	3232	3200	3212	3202	3200	307
15°	3110	3084	3110	3110	3107	877
25°	2872	2851	2892	2884	2884	1322
35°	2526	2520	2564	2546	2546	1580
45°	2105	2099	2120	2093	2087	1621
55°	1610	1590	1589	1566	1566	1435
65°	1044	1020	1023	1014	1014	1032
75°	450	471	498	501	501	487
85°	66	101	119	122	119	89
90°	3	9	23	12	12	5
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1167	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	



TEST NUMBER: P562537

CATALOG NUMBER: SQ4-PC3-025U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3220.4	3220.4	3220.4	3220.4	3220.4
2.5°	3239.5	3211.5	3220.4	3213.0	3201.4
5°	3232.4	3200.3	3211.5	3202.5	3199.6
7.5°	3209.1	3177.0	3191.8	3185.8	3182.9
10°	3187.6	3155.6	3172.7	3166.7	3163.8
12.5°	3159.0	3129.3	3148.9	3142.9	3142.3
15°	3110.1	3083.9	3110.1	3110.0	3107.1
17.5°	3048.7	3024.8	3052.9	3054.6	3052.9
20°	3005.7	2979.5	3014.7	3011.8	3014.7
22.5°	2953.3	2931.7	2969.4	2961.7	2964.6
25°	2871.6	2851.2	2892.4	2883.5	2883.5
27.5°	2774.9	2760.4	2805.4	2795.8	2795.8
30°	2710.5	2696.0	2743.3	2731.4	2731.4
32.5°	2639.0	2629.1	2674.2	2659.8	2659.8
35°	2525.7	2519.8	2564.4	2546.5	2546.5
37.5°	2408.8	2403.5	2444.0	2422.3	2415.3
40°	2322.9	2320.0	2355.7	2331.8	2331.8
42.5°	2237.0	2234.1	2265.0	2236.4	2236.4
45°	2105.2	2099.4	2120.1	2093.2	2087.3
47.5°	1961.5	1955.7	1968.6	1939.4	1936.4
50°	1863.7	1857.9	1863.7	1836.8	1833.9
52.5°	1763.5	1753.0	1753.9	1727.1	1726.5
55°	1610.2	1589.8	1589.3	1565.5	1565.5
57.5°	1448.0	1421.2	1423.6	1403.2	1400.3
60°	1335.9	1306.7	1309.1	1291.1	1288.2
62.5°	1226.2	1192.3	1199.3	1179.0	1178.4
65°	1043.7	1020.3	1022.8	1013.8	1013.8
67.5°	868.3	846.8	862.4	855.2	854.6
70°	739.5	724.9	745.5	745.4	742.5
72.5°	620.2	619.7	645.3	645.3	647.1
75°	450.3	470.7	498.0	501.0	501.0
77.5°	300.6	336.7	366.8	368.0	367.4
80°	214.7	255.5	283.3	289.2	286.3
82.5°	145.5	188.7	211.7	217.6	214.7
85°	65.6	100.6	119.3	122.2	119.3
87.5°	19.7	41.8	52.3	49.9	45.3
90°	2.9	8.6	23.2	11.6	11.6
92.5°	12.2	58.6	129.7	57.4	37.1
95°	28.9	113.9	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.3
100°	66.6	134.5	625.3	633.6	492.1
102.5°	80.5	143.9	641.5	789.2	668.1
105°	104.2	158.0	639.7	971.1	906.0
107.5°	128.5	178.3	603.3	1065.6	1081.5
110°	144.7	190.0	573.2	1090.0	1157.9

TEST NUMBER: P562537

CATALOG NUMBER: SQ4-PC3-025U-075D-840-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.9	204.0	545.4	1074.6	1178.7
115°	185.3	224.9	512.4	1022.2	1166.6
117.5°	209.0	245.2	489.8	949.6	1109.8
120°	222.9	256.9	480.5	900.9	1056.6
122.5°	236.8	270.8	473.6	852.2	1005.6
125°	257.6	288.8	466.0	787.7	929.2
127.5°	274.4	306.1	459.7	735.7	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	292.9	326.9	455.0	675.0	774.0
135°	306.8	338.0	451.6	635.9	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.3	648.4
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.0	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	556.9
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.4	413.7	445.8	489.5	503.7
157.5°	412.8	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.2	444.0	448.7	460.3	462.6
170°	445.8	448.6	448.7	460.3	460.3
172.5°	448.1	448.7	448.7	457.9	455.6
175°	451.6	451.6	448.7	454.5	454.5
177.5°	451.6	451.6	449.3	453.8	451.6
180°	451.6	451.6	451.6	451.6	451.6

(END OF REPORT)