

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: P563113

Luminaire Tested: **SQ4-PC3-150U-075D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563113  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-075D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27048.9 lumens  
Efficiency: N/A  
Efficacy: 138.8 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-Indirect

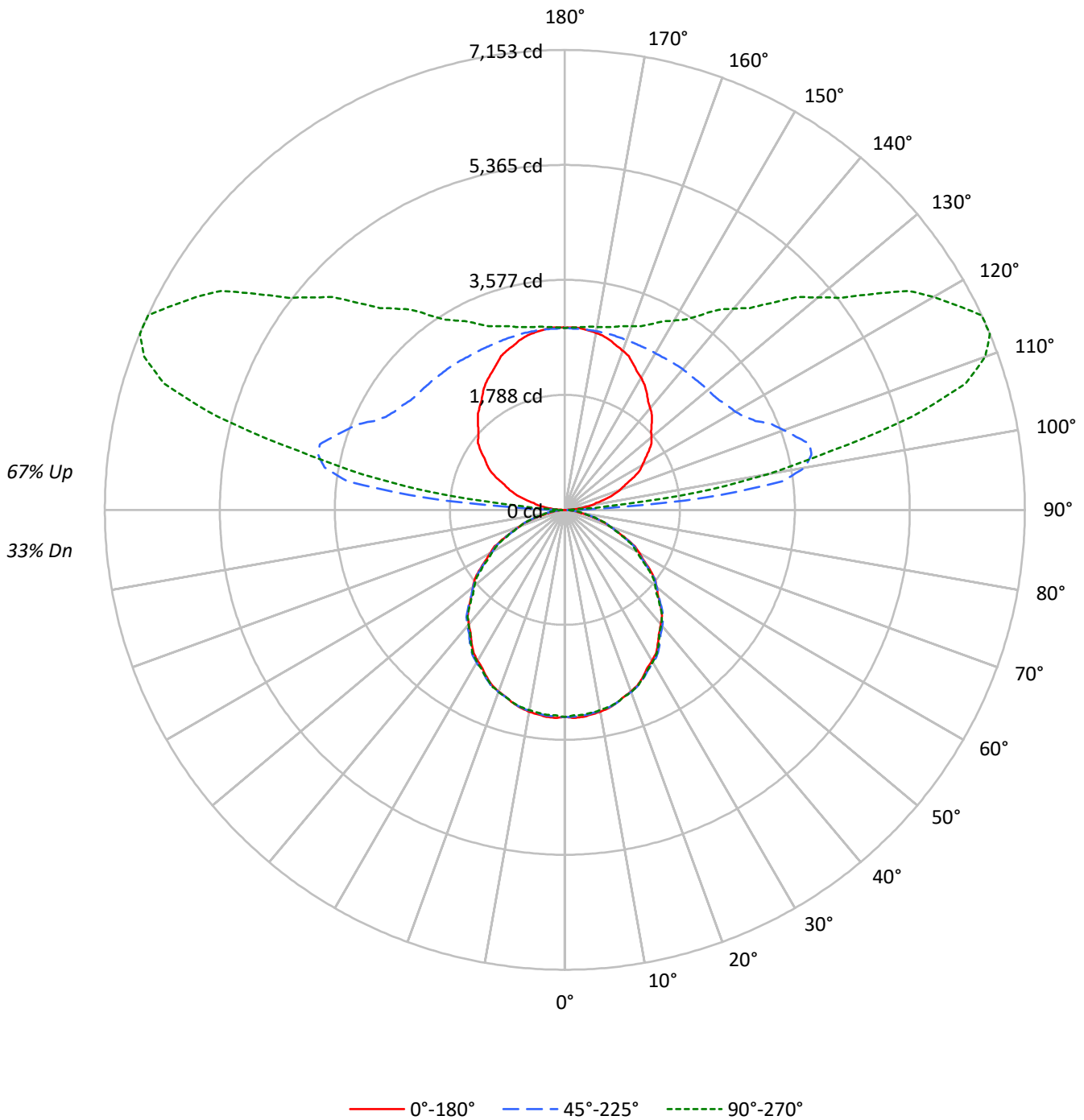
Input Watts (W): 194.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

**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	1.1
10°-20°	874.6	3.2
20°-30°	1324.5	4.9
30°-40°	1587.9	5.9
40°-50°	1619.1	6.0
50°-60°	1413.4	5.2
60°-70°	1011.9	3.7
70°-80°	521.2	1.9
80°-90°	137.7	0.5
90°-100°	1315.8	4.9
100°-110°	3557.5	13.2
110°-120°	3740.2	13.8
120°-130°	3038.1	11.2
130°-140°	2383.1	8.8
140°-150°	1829.1	6.8
150°-160°	1315.4	4.9
160°-170°	803.6	3.0
170°-180°	270.9	1.0
0°-30°	2503.9	9.3
0°-40°	4091.8	15.1
0°-60°	7124.4	26.3
0°-90°	8795.1	32.5
90°-120°	8613.5	31.8
90°-150°	15863.8	58.6
90°-180°	18254.0	67.5
0°-180°	27048.9	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°	6	18	40	43	40	16
95°	204	717	2188	1132	674	214
105°	661	1022	3947	5822	5583	696
115°	1164	1423	3273	6336	7153	1150
125°	1594	1826	2950	4978	5848	1421
135°	1911	2137	2871	4020	4550	1477
145°	2222	2388	2831	3441	3703	1390
155°	2508	2606	2807	3086	3188	1157
165°	2731	2757	2819	2929	2944	769
175°	2834	2831	2822	2858	2852	269
180°	2831	2831	2831	2831	2831	

TEST NUMBER: P563113

CATALOG NUMBER: SQ4-PC3-150U-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°	20.3	43.7	55.6	56.1	50.9
90°	6.1	18.0	39.6	42.6	39.6
92.5°	86.6	315.4	622.3	270.1	195.7
95°	204.2	716.7	2188.2	1132.4	673.5
97.5°	327.9	822.0	3410.8	2822.7	2073.0
100°	420.6	864.6	3791.2	3953.8	3196.9
102.5°	505.9	923.7	3925.3	4811.4	4245.3
105°	661.3	1021.9	3946.6	5821.5	5583.1
107.5°	805.2	1134.1	3774.1	6451.7	6530.9
110°	917.3	1215.3	3620.5	6620.9	6957.6

TEST NUMBER: P563113

CATALOG NUMBER: SQ4-PC3-150U-075D-840-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1017.3	1296.2	3479.1	6587.1	7152.6
115°	1164.2	1423.4	3273.1	6336.2	7152.6
117.5°	1308.0	1551.2	3137.2	5952.8	6878.3
120°	1395.8	1634.2	3056.7	5677.7	6622.4
122.5°	1478.7	1712.3	3007.9	5382.9	6334.7
125°	1593.9	1826.3	2950.0	4978.2	5848.3
127.5°	1699.9	1928.2	2915.9	4647.9	5413.1
130°	1758.4	1993.9	2901.3	4443.8	5135.1
132.5°	1819.4	2052.4	2886.7	4259.7	4896.2
135°	1910.8	2137.3	2870.8	4019.6	4550.0
137.5°	2002.9	2216.8	2857.4	3824.8	4256.8
140°	2066.2	2265.9	2852.5	3699.3	4083.7
142.5°	2127.2	2314.9	2842.8	3586.1	3922.8
145°	2221.7	2388.5	2831.2	3440.6	3702.8
147.5°	2307.6	2455.4	2817.8	3308.7	3510.2
150°	2371.0	2502.1	2812.9	3237.1	3398.0
152.5°	2429.5	2543.9	2810.5	3170.6	3302.9
155°	2508.1	2606.5	2806.8	3086.4	3187.8
157.5°	2589.8	2658.4	2807.4	3027.7	3094.5
160°	2636.1	2692.8	2809.9	2990.7	3038.4
162.5°	2672.7	2719.8	2812.3	2961.2	2997.0
165°	2730.6	2757.4	2819.0	2929.0	2943.9
167.5°	2770.2	2788.7	2819.6	2901.4	2908.6
170°	2794.6	2803.6	2822.0	2889.1	2889.1
172.5°	2814.1	2815.9	2822.0	2874.4	2872.0
175°	2834.2	2831.3	2822.0	2858.5	2852.5
177.5°	2840.9	2833.8	2821.4	2845.7	2838.5
180°	2831.2	2831.2	2831.2	2831.2	2831.2

(END OF REPORT)