

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: P563825

Luminaire Tested: **SQ4-PP3-150U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563825  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-150U-125D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

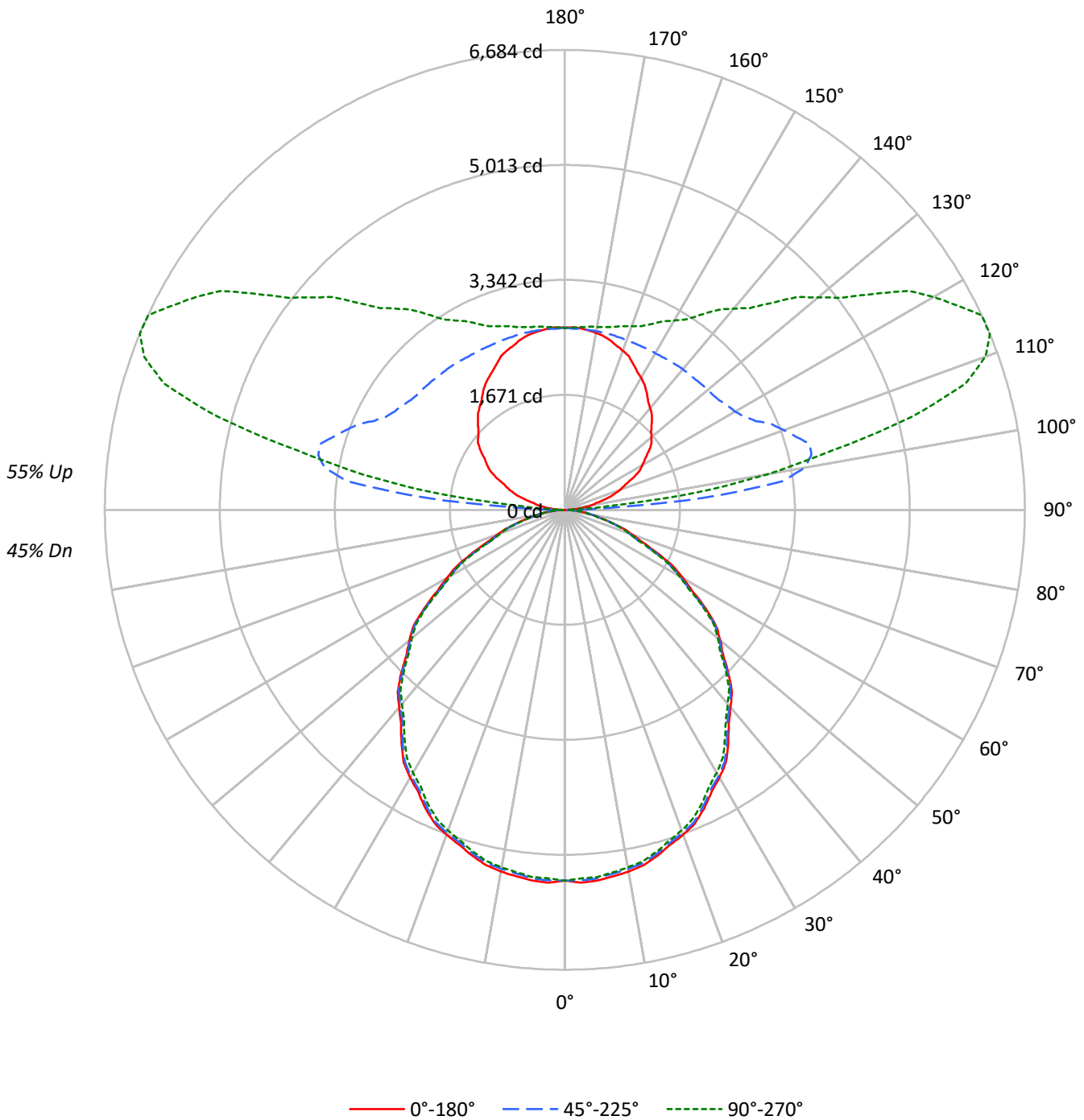
Lumens per Lamp: N/A  
Luminaire Lumens: 30858.3 lumens  
Efficiency: N/A  
Efficacy: 120.4 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 256.3  
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16595	16537
10°	16669	16551	16477
15°	16559	16469	16379
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15038	14944	14773
45°	14628	14525	14381
50°	14103	14012	13877
55°	13373	13196	13095
60°	12174	11826	11767
65°	10725	10278	10244
70°	9260	8878	8878
75°	7971	7858	7746
80°	7028	7111	6944
85°	5501	6002	6002



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	509.7	1.7
10°-20°	1455.2	4.7
20°-30°	2179.8	7.1
30°-40°	2556.7	8.3
40°-50°	2564.7	8.3
50°-60°	2187.9	7.1
60°-70°	1426.9	4.6
70°-80°	715.9	2.3
80°-90°	203.6	0.7
90°-100°	1229.6	4.0
100°-110°	3324.5	10.8
110°-120°	3495.2	11.3
120°-130°	2839.1	9.2
130°-140°	2227.0	7.2
140°-150°	1709.2	5.5
150°-160°	1229.3	4.0
160°-170°	750.9	2.4
170°-180°	253.2	0.8
0°-30°	4144.7	13.4
0°-40°	6701.4	21.7
0°-60°	11454.0	37.1
0°-90°	13800.4	44.7
90°-120°	8049.2	26.1
90°-150°	14824.5	48.0
90°-180°	17058.0	55.3
0°-180°	30858.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5390	5390	5390	5390	5390	
5°	5409	5358	5376	5357	5357	514
15°	5201	5150	5172	5153	5144	1467
25°	4790	4734	4757	4714	4710	2203
35°	4138	4096	4110	4062	4058	2585
45°	3363	3340	3340	3307	3307	2590
55°	2494	2485	2461	2447	2442	2217
65°	1474	1446	1412	1403	1408	1471
75°	671	671	661	656	652	728
85°	156	170	170	170	170	183
90°	6	17	37	40	37	18
95°	191	670	2045	1058	629	200
105°	618	955	3688	5440	5217	651
115°	1088	1330	3059	5921	6684	1074
125°	1490	1707	2757	4652	5465	1328
135°	1786	1997	2683	3756	4252	1380
145°	2076	2232	2646	3215	3460	1299
155°	2344	2436	2623	2884	2979	1081
165°	2552	2577	2634	2737	2751	719
175°	2649	2646	2637	2671	2666	251
180°	2646	2646	2646	2646	2646	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5389.8	5389.8	5389.8	5389.8	5389.8
2.5°	5423.8	5379.5	5389.8	5381.7	5359.6
5°	5408.7	5357.9	5375.6	5356.7	5356.7
7.5°	5371.9	5316.4	5334.1	5315.1	5314.2
10°	5337.8	5282.4	5300.1	5281.1	5276.4
12.5°	5288.7	5233.3	5254.7	5232.0	5231.1
15°	5200.9	5150.0	5172.5	5153.4	5144.2
17.5°	5101.7	5046.2	5073.3	5046.8	5043.1
20°	5026.1	4970.7	4997.7	4959.9	4959.9
22.5°	4935.4	4880.0	4910.8	4861.7	4861.7
25°	4789.9	4734.5	4756.8	4714.2	4709.6
27.5°	4617.0	4562.5	4585.8	4537.6	4536.7
30°	4492.3	4441.5	4468.7	4416.6	4412.0
32.5°	4356.2	4309.1	4328.8	4276.8	4272.2
35°	4138.0	4096.4	4109.7	4062.3	4057.7
37.5°	3908.4	3865.9	3881.0	3840.4	3838.5
40°	3745.9	3718.2	3722.3	3689.0	3679.8
42.5°	3594.8	3563.4	3567.4	3534.3	3532.4
45°	3363.3	3340.2	3339.7	3306.6	3306.6
47.5°	3117.7	3100.1	3095.0	3067.6	3066.7
50°	2947.6	2933.8	2928.7	2905.0	2900.4
52.5°	2770.0	2763.5	2747.3	2727.5	2726.6
55°	2494.1	2484.9	2461.1	2446.8	2442.2
57.5°	2194.7	2176.2	2149.3	2128.6	2132.3
60°	1979.3	1960.8	1922.6	1913.1	1913.1
62.5°	1771.4	1749.2	1710.9	1697.9	1705.3
65°	1473.8	1446.1	1412.4	1403.1	1407.7
67.5°	1203.6	1178.7	1142.2	1142.1	1138.4
70°	1029.8	1015.9	987.3	987.3	987.3
72.5°	874.8	868.4	847.4	847.4	843.7
75°	670.8	670.8	661.3	656.5	651.9
77.5°	502.6	504.5	499.8	494.9	486.5
80°	396.8	406.0	401.5	396.7	392.1
82.5°	298.5	307.8	307.0	298.5	297.6
85°	155.9	169.7	170.1	170.1	170.1
87.5°	42.7	59.7	67.9	68.5	71.6
90°	5.7	16.8	37.0	39.8	37.0
92.5°	80.9	294.7	581.5	252.5	182.8
95°	190.8	669.8	2044.8	1058.2	629.4
97.5°	306.4	768.1	3187.4	2637.8	1937.2
100°	393.0	807.9	3542.8	3694.8	2987.5
102.5°	472.8	863.2	3668.1	4496.2	3967.1
105°	618.0	954.9	3688.0	5440.1	5217.4
107.5°	752.4	1059.8	3526.9	6029.0	6103.1
110°	857.2	1135.7	3383.3	6187.1	6501.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	950.6	1211.3	3251.2	6155.5	6684.1
115°	1087.9	1330.2	3058.7	5921.1	6684.1
117.5°	1222.3	1449.6	2931.6	5562.8	6427.7
120°	1304.3	1527.1	2856.5	5305.8	6188.5
122.5°	1381.8	1600.1	2810.9	5030.3	5919.7
125°	1489.5	1706.7	2756.8	4652.0	5465.1
127.5°	1588.6	1801.9	2724.9	4343.4	5058.5
130°	1643.2	1863.2	2711.2	4152.7	4798.7
132.5°	1700.2	1918.0	2697.5	3980.7	4575.5
135°	1785.6	1997.3	2682.7	3756.3	4251.9
137.5°	1871.6	2071.6	2670.2	3574.2	3978.0
140°	1930.9	2117.5	2665.6	3457.0	3816.2
142.5°	1987.8	2163.3	2656.5	3351.2	3665.8
145°	2076.1	2232.1	2645.7	3215.2	3460.2
147.5°	2156.4	2294.6	2633.2	3092.0	3280.2
150°	2215.7	2338.2	2628.6	3025.1	3175.4
152.5°	2270.4	2377.3	2626.3	2962.9	3086.6
155°	2343.8	2435.7	2622.9	2884.2	2978.9
157.5°	2420.2	2484.2	2623.5	2829.4	2891.8
160°	2463.4	2516.4	2625.8	2794.8	2839.4
162.5°	2497.6	2541.6	2628.1	2767.2	2800.6
165°	2551.7	2576.8	2634.3	2737.2	2751.1
167.5°	2588.8	2606.0	2634.9	2711.4	2718.0
170°	2611.5	2619.9	2637.2	2699.8	2699.8
172.5°	2629.8	2631.4	2637.2	2686.1	2683.9
175°	2648.6	2645.8	2637.2	2671.2	2665.6
177.5°	2654.8	2648.1	2636.6	2659.2	2652.5
180°	2645.7	2645.7	2645.7	2645.7	2645.7

(END OF REPORT)