

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: P519043

Luminaire Tested: **SQ4-WB-025U-125D-830-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519043  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-025U-125D-830-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

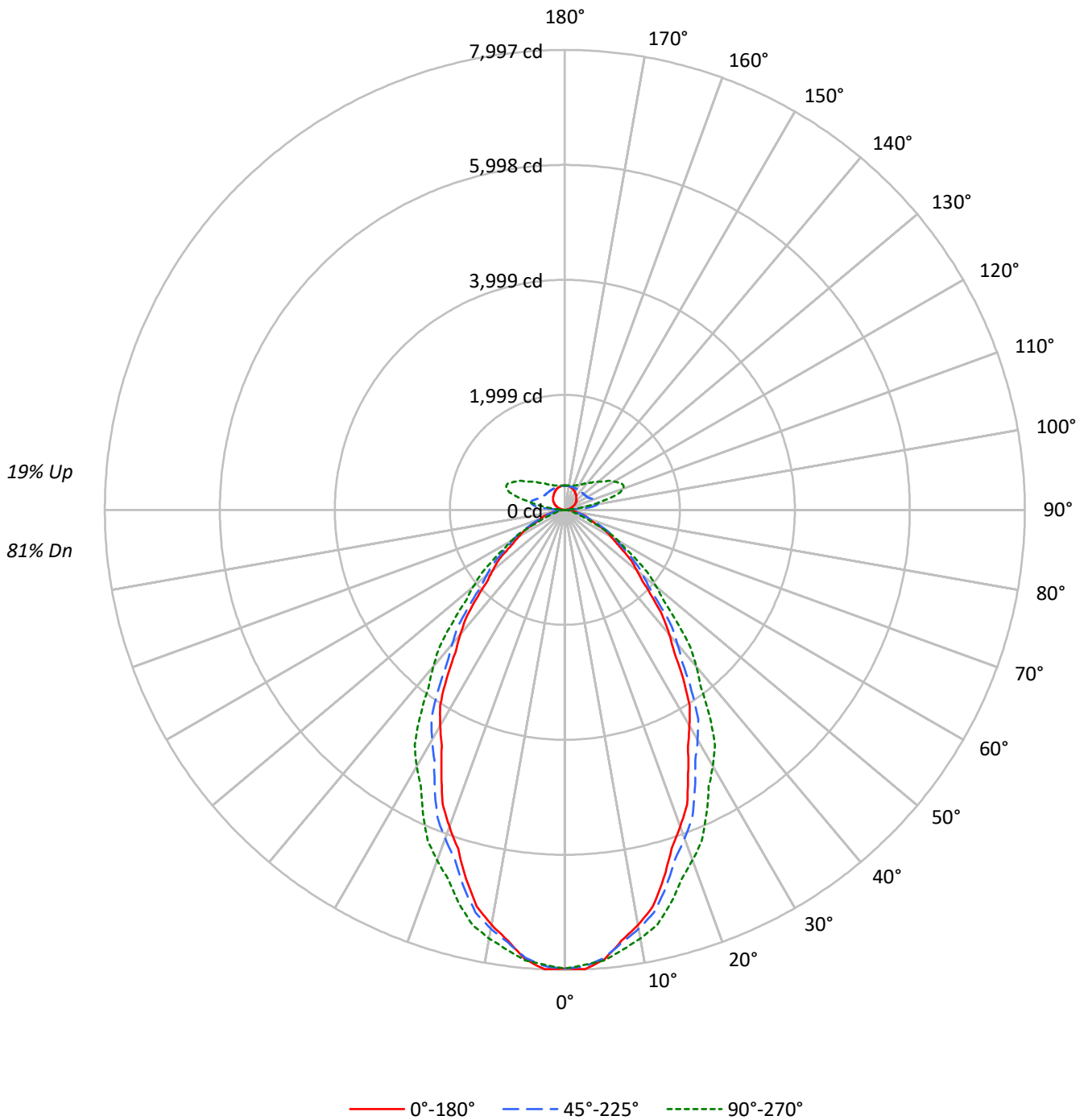
Lumens per Lamp: N/A  
Luminaire Lumens: 14361.3 lumens  
Efficiency: N/A  
Efficacy: 91.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 156.2  
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	115	115	115	115	110	110	110	110	101	101	101	92	92	92	85	85	85	81				
1	107	103	99	96	102	99	96	93	91	89	87	84	82	81	78	76	75	72				
2	99	92	87	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63				
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56				
4	85	75	67	62	81	72	66	61	68	62	58	63	59	55	59	55	52	50				
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45				
6	73	62	54	49	70	60	53	48	57	51	46	53	48	44	50	46	43	40				
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37				
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34				
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31				
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28				

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

	0°	45°	90°
0°	24532	24532	24532
5°	24226	24140	24280
10°	22889	23096	23632
15°	21130	21620	22589
20°	19188	19910	21227
25°	17210	18149	19776
30°	15388	16395	18272
35°	13456	14429	16492
40°	11326	12225	14277
45°	9347	10154	11920
50°	7804	8507	9931
55°	6625	7301	8201
60°	5662	6330	6545
65°	4508	5323	4228
70°	3997	4154	2581
75°	3701	3369	1580
80°	3409	3099	1364
85°	3088	2841	1112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	731.7	5.1
10°-20°	1903.1	13.3
20°-30°	2465.1	17.2
30°-40°	2413.9	16.8
40°-50°	1847.7	12.9
50°-60°	1231.2	8.6
60°-70°	671.9	4.7
70°-80°	280.0	1.9
80°-90°	81.5	0.6
90°-100°	205.7	1.4
100°-110°	540.7	3.8
110°-120°	560.7	3.9
120°-130°	449.7	3.1
130°-140°	352.9	2.5
140°-150°	270.8	1.9
150°-160°	195.1	1.4
160°-170°	119.3	0.8
170°-180°	40.3	0.3
0°-30°	5099.9	35.5
0°-40°	7513.8	52.3
0°-60°	10592.8	73.8
0°-90°	11626.2	81.0
90°-120°	1307.0	9.1
90°-150°	2380.4	16.6
90°-180°	2735.0	19.0
0°-180°	14361.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7977	7977	7977	7977	7977	
5°	7848	7769	7820	7838	7865	730
15°	6636	6612	6790	6975	7095	1853
25°	5072	5086	5348	5581	5828	2332
35°	3584	3601	3843	4102	4393	2228
45°	2149	2190	2335	2511	2741	1676
55°	1236	1287	1362	1413	1530	1120
65°	620	671	732	639	581	644
75°	312	312	284	195	133	333
85°	88	88	80	52	32	95
90°	3	8	22	11	11	7
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°	7977.0	7977.0	7977.0	7977.0	7977.0
2.5°	7996.6	7925.4	7943.4	7942.9	7921.0
5°	7847.5	7768.7	7819.5	7837.6	7865.0
7.5°	7556.2	7496.7	7589.1	7657.6	7713.1
10°	7329.4	7278.1	7395.9	7495.6	7567.4
12.5°	7066.2	7023.1	7169.1	7302.9	7396.6
15°	6636.4	6612.4	6790.4	6975.1	7094.9
17.5°	6176.5	6164.8	6369.0	6584.6	6737.9
20°	5862.8	5859.4	6083.4	6307.9	6485.9
22.5°	5546.4	5554.0	5789.3	6022.9	6225.5
25°	5071.8	5085.5	5348.3	5581.4	5827.8
27.5°	4632.9	4639.0	4910.8	5156.9	5419.7
30°	4333.3	4350.4	4616.8	4871.5	5145.3
32.5°	4033.6	4053.5	4314.4	4577.6	4856.9
35°	3584.2	3601.3	3843.2	4101.9	4392.8
37.5°	3120.8	3144.1	3358.8	3603.3	3889.4
40°	2821.2	2855.4	3045.2	3275.6	3556.2
42.5°	2532.7	2575.2	2751.2	2969.7	3223.0
45°	2149.1	2190.2	2334.6	2511.4	2740.7
47.5°	1818.7	1865.9	1976.9	2129.1	2324.8
50°	1631.1	1675.6	1778.1	1890.8	2075.6
52.5°	1465.9	1510.4	1601.7	1688.6	1846.0
55°	1235.6	1286.9	1361.6	1413.2	1529.6
57.5°	1046.6	1095.8	1155.1	1178.4	1248.9
60°	920.6	975.3	1029.1	1026.4	1064.1
62.5°	805.7	852.3	905.9	868.8	870.9
65°	619.5	670.9	731.5	639.2	581.0
67.5°	500.5	511.5	574.0	445.8	376.6
70°	444.5	444.5	462.0	345.2	287.0
72.5°	391.3	391.3	375.2	280.7	219.8
75°	311.5	311.5	283.5	194.6	133.0
77.5°	240.1	237.4	217.0	145.2	96.6
80°	192.5	192.5	175.0	114.7	77.0
82.5°	150.5	150.5	135.8	89.6	57.4
85°	87.5	87.5	80.5	52.0	31.5
87.5°	31.3	32.4	32.3	18.9	16.2
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)