

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: P519583

Luminaire Tested: **SQ4-WB-150U-075D-930-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519583  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-075D-930-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

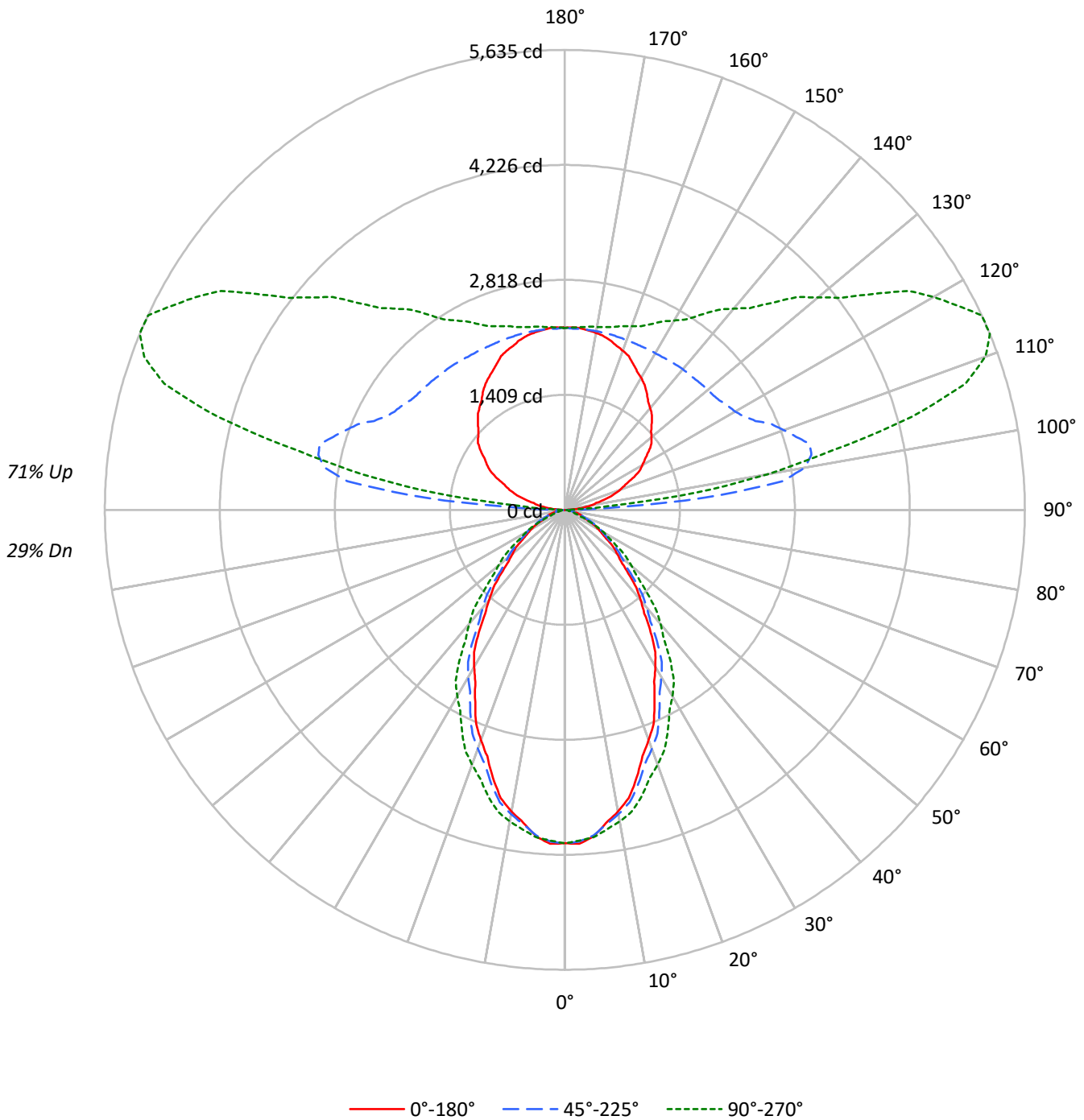
Lumens per Lamp: N/A  
Luminaire Lumens: 20337.8 lumens  
Efficiency: N/A  
Efficacy: 104.4 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

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	50	30	10	0	
RCR																						
0	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	29				
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	33	33	26				
2	86	79	74	69	77	71	67	63	57	54	51	43	41	39	31	29	28	23				
3	79	70	64	58	71	63	58	53	51	47	44	39	36	34	28	26	25	20				
4	72	63	55	50	65	57	50	46	45	41	38	35	32	30	25	24	22	18				
5	67	56	49	43	60	51	44	40	41	36	33	32	29	26	23	21	20	16				
6	62	50	43	38	55	46	39	35	37	32	29	29	26	23	21	19	18	15				
7	57	46	38	33	51	42	35	31	34	29	26	26	23	21	20	18	16	13				
8	53	41	34	29	48	38	32	27	31	26	23	24	21	19	18	16	15	12				
9	49	38	31	26	44	35	29	24	28	24	21	22	19	17	17	15	13	11				
10	46	35	28	24	42	32	26	22	26	22	19	21	18	15	16	14	12	10				

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

	0°	45°	90°
0°	12563	12563	12563
5°	12406	12362	12433
10°	11721	11827	12102
15°	10820	11071	11568
20°	9826	10195	10870
25°	8813	9294	10127
30°	7880	8396	9357
35°	6891	7389	8445
40°	5800	6260	7311
45°	4786	5200	6104
50°	3996	4356	5085
55°	3392	3738	4200
60°	2899	3241	3352
65°	2309	2726	2165
70°	2047	2127	1322
75°	1895	1725	809
80°	1746	1587	698
85°	1581	1454	568



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.7	1.8
10°-20°	974.6	4.8
20°-30°	1262.3	6.2
30°-40°	1236.1	6.1
40°-50°	946.2	4.7
50°-60°	630.5	3.1
60°-70°	344.1	1.7
70°-80°	143.4	0.7
80°-90°	45.2	0.2
90°-100°	1036.6	5.1
100°-110°	2802.7	13.8
110°-120°	2946.7	14.5
120°-130°	2393.5	11.8
130°-140°	1877.5	9.2
140°-150°	1441.0	7.1
150°-160°	1036.3	5.1
160°-170°	633.1	3.1
170°-180°	213.4	1.0
0°-30°	2611.6	12.8
0°-40°	3847.7	18.9
0°-60°	5424.4	26.7
0°-90°	5957.1	29.3
90°-120°	6786.0	33.4
90°-150°	12497.9	61.5
90°-180°	14381.0	70.7
0°-180°	20337.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4085	4085	4085	4085	4085	
5°	4019	3978	4004	4014	4028	374
15°	3398	3386	3477	3572	3633	949
25°	2597	2604	2739	2858	2984	1194
35°	1835	1844	1968	2100	2250	1141
45°	1100	1122	1196	1286	1404	858
55°	633	659	697	724	783	574
65°	317	344	375	327	298	330
75°	160	160	145	100	68	170
85°	45	45	41	27	16	49
90°	5	14	31	34	31	13
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4084.9	4084.9	4084.9	4084.9	4084.9
2.5°	4094.9	4058.5	4067.7	4067.4	4056.2
5°	4018.6	3978.3	4004.2	4013.5	4027.5
7.5°	3869.4	3838.9	3886.3	3921.3	3949.7
10°	3753.3	3727.0	3787.3	3838.4	3875.2
12.5°	3618.5	3596.4	3671.2	3739.7	3787.7
15°	3398.4	3386.1	3477.3	3571.9	3633.2
17.5°	3162.9	3156.9	3261.5	3371.9	3450.4
20°	3002.3	3000.5	3115.2	3230.2	3321.3
22.5°	2840.2	2844.1	2964.6	3084.2	3188.0
25°	2597.2	2604.2	2738.8	2858.2	2984.3
27.5°	2372.4	2375.6	2514.7	2640.8	2775.4
30°	2219.0	2227.8	2364.2	2494.6	2634.8
32.5°	2065.6	2075.7	2209.3	2344.1	2487.1
35°	1835.4	1844.2	1968.1	2100.5	2249.5
37.5°	1598.1	1610.0	1720.0	1845.2	1991.7
40°	1444.7	1462.2	1559.4	1677.4	1821.1
42.5°	1297.0	1318.7	1408.8	1520.8	1650.4
45°	1100.5	1121.6	1195.5	1286.0	1403.5
47.5°	931.3	955.5	1012.3	1090.3	1190.5
50°	835.3	858.0	910.5	968.3	1062.9
52.5°	750.7	773.4	820.2	864.7	945.3
55°	632.7	659.0	697.2	723.7	783.3
57.5°	535.9	561.2	591.5	603.4	639.5
60°	471.4	499.4	527.0	525.6	544.9
62.5°	412.6	436.4	463.9	444.9	445.9
65°	317.3	343.5	374.6	327.3	297.5
67.5°	256.3	261.9	294.0	228.3	192.9
70°	227.6	227.6	236.6	176.8	147.0
72.5°	200.4	200.4	192.1	143.8	112.6
75°	159.5	159.5	145.2	99.7	68.1
77.5°	123.0	121.6	111.1	74.4	49.5
80°	98.6	98.6	89.6	58.7	39.4
82.5°	77.1	77.1	69.5	45.9	29.4
85°	44.8	44.8	41.2	26.6	16.1
87.5°	16.7	18.6	20.6	15.3	13.4
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)