

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: P519213

Luminaire Tested: **SQ4-WB-075U-100D-830-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519213
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-075U-100D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

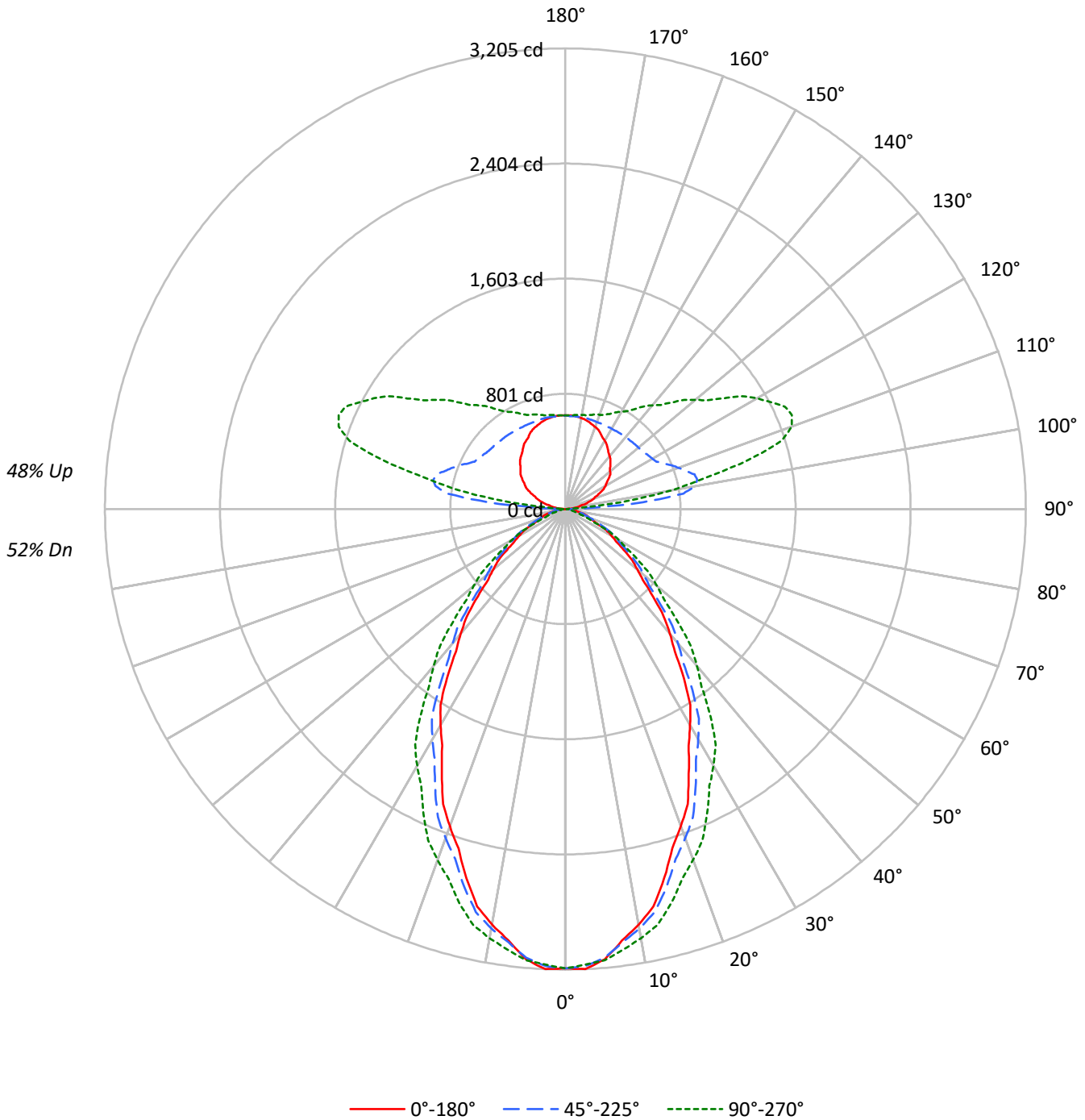
Lumens per Lamp: N/A
Luminaire Lumens: 8899.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 82.9
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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	58	58	58	52
1	99	96	92	89	92	89	86	83	76	74	72	64	63	61	53	52	52	46
2	92	85	79	75	85	79	74	70	68	65	62	58	55	53	48	47	45	41
3	84	76	69	64	78	71	65	60	61	57	53	52	49	47	44	42	40	36
4	78	68	61	55	72	64	57	52	55	50	47	48	44	41	40	38	36	32
5	72	61	54	48	67	57	51	46	50	45	41	43	40	37	37	34	32	29
6	67	56	48	43	62	52	45	41	46	41	37	40	36	33	34	31	29	26
7	62	51	43	38	58	48	41	36	42	37	33	37	33	30	32	29	26	24
8	58	46	39	34	54	44	37	33	39	33	30	34	30	27	29	26	24	22
9	54	43	36	31	51	40	34	30	36	31	27	31	27	24	27	24	22	20
10	51	39	33	28	47	37	31	27	33	28	25	29	25	22	26	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19664	19664	19664
5°	19419	19350	19462
10°	18347	18513	18943
15°	16937	17330	18107
20°	15380	15959	17014
25°	13795	14547	15852
30°	12335	13141	14646
35°	10786	11566	13219
40°	9079	9800	11444
45°	7492	8139	9554
50°	6255	6819	7960
55°	5310	5852	6574
60°	4538	5073	5247
65°	3614	4267	3390
70°	3205	3331	2068
75°	2968	2700	1267
80°	2735	2483	1095
85°	2477	2279	889



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.2	3.3
10°-20°	762.7	8.6
20°-30°	988.0	11.1
30°-40°	967.5	10.9
40°-50°	740.5	8.3
50°-60°	493.5	5.5
60°-70°	269.3	3.0
70°-80°	112.2	1.3
80°-90°	33.4	0.4
90°-100°	306.9	3.4
100°-110°	844.3	9.5
110°-120°	871.5	9.8
120°-130°	698.2	7.8
130°-140°	548.4	6.2
140°-150°	420.3	4.7
150°-160°	302.2	3.4
160°-170°	184.8	2.1
170°-180°	62.3	0.7
0°-30°	2043.9	23.0
0°-40°	3011.4	33.8
0°-60°	4245.4	47.7
0°-90°	4660.3	52.4
90°-120°	2022.6	22.7
90°-150°	3689.5	41.5
90°-180°	4239.0	47.6
0°-180°	8899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3197	3197	3197	3197	3197	
5°	3145	3114	3134	3141	3152	293
15°	2660	2650	2722	2796	2844	743
25°	2033	2038	2144	2237	2336	935
35°	1436	1443	1540	1644	1760	893
45°	861	878	936	1006	1098	672
55°	495	516	546	566	613	449
65°	248	269	293	256	233	258
75°	125	125	114	78	53	133
85°	35	35	32	21	13	38
90°	1	5	10	12	12	5
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3197.0	3197.0	3197.0	3197.0	3197.0
2.5°	3204.9	3176.4	3183.6	3183.4	3174.6
5°	3145.1	3113.6	3133.9	3141.2	3152.1
7.5°	3028.4	3004.5	3041.6	3069.0	3091.3
10°	2937.5	2916.9	2964.2	3004.1	3032.9
12.5°	2832.0	2814.7	2873.3	2926.9	2964.4
15°	2659.8	2650.1	2721.5	2795.5	2843.5
17.5°	2475.4	2470.8	2552.6	2639.0	2700.4
20°	2349.7	2348.4	2438.1	2528.1	2599.4
22.5°	2222.9	2225.9	2320.3	2413.9	2495.1
25°	2032.7	2038.2	2143.5	2236.9	2335.7
27.5°	1856.8	1859.2	1968.2	2066.8	2172.1
30°	1736.7	1743.6	1850.3	1952.4	2062.1
32.5°	1616.6	1624.6	1729.1	1834.6	1946.6
35°	1436.5	1443.3	1540.3	1644.0	1760.5
37.5°	1250.8	1260.1	1346.1	1444.1	1558.8
40°	1130.7	1144.4	1220.5	1312.8	1425.3
42.5°	1015.1	1032.1	1102.6	1190.2	1291.7
45°	861.3	877.8	935.7	1006.5	1098.4
47.5°	728.9	747.8	792.3	853.3	931.8
50°	653.7	671.5	712.6	757.8	831.9
52.5°	587.5	605.3	641.9	676.8	739.8
55°	495.2	515.8	545.7	566.4	613.0
57.5°	419.4	439.2	462.9	472.3	500.5
60°	368.9	390.9	412.4	411.4	426.5
62.5°	322.9	341.6	363.1	348.2	349.0
65°	248.3	268.9	293.2	256.2	232.9
67.5°	200.6	205.0	230.1	178.7	150.9
70°	178.2	178.2	185.2	138.3	115.0
72.5°	156.8	156.8	150.4	112.5	88.1
75°	124.9	124.9	113.6	78.0	53.3
77.5°	96.2	95.1	87.0	58.2	38.7
80°	77.2	77.2	70.1	46.0	30.9
82.5°	60.3	60.3	54.4	35.9	23.0
85°	35.1	35.1	32.3	20.9	12.6
87.5°	12.6	13.4	13.2	9.2	8.1
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)