

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: P519613

Luminaire Tested: **SQ4-WB-150U-100D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519613
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-100D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

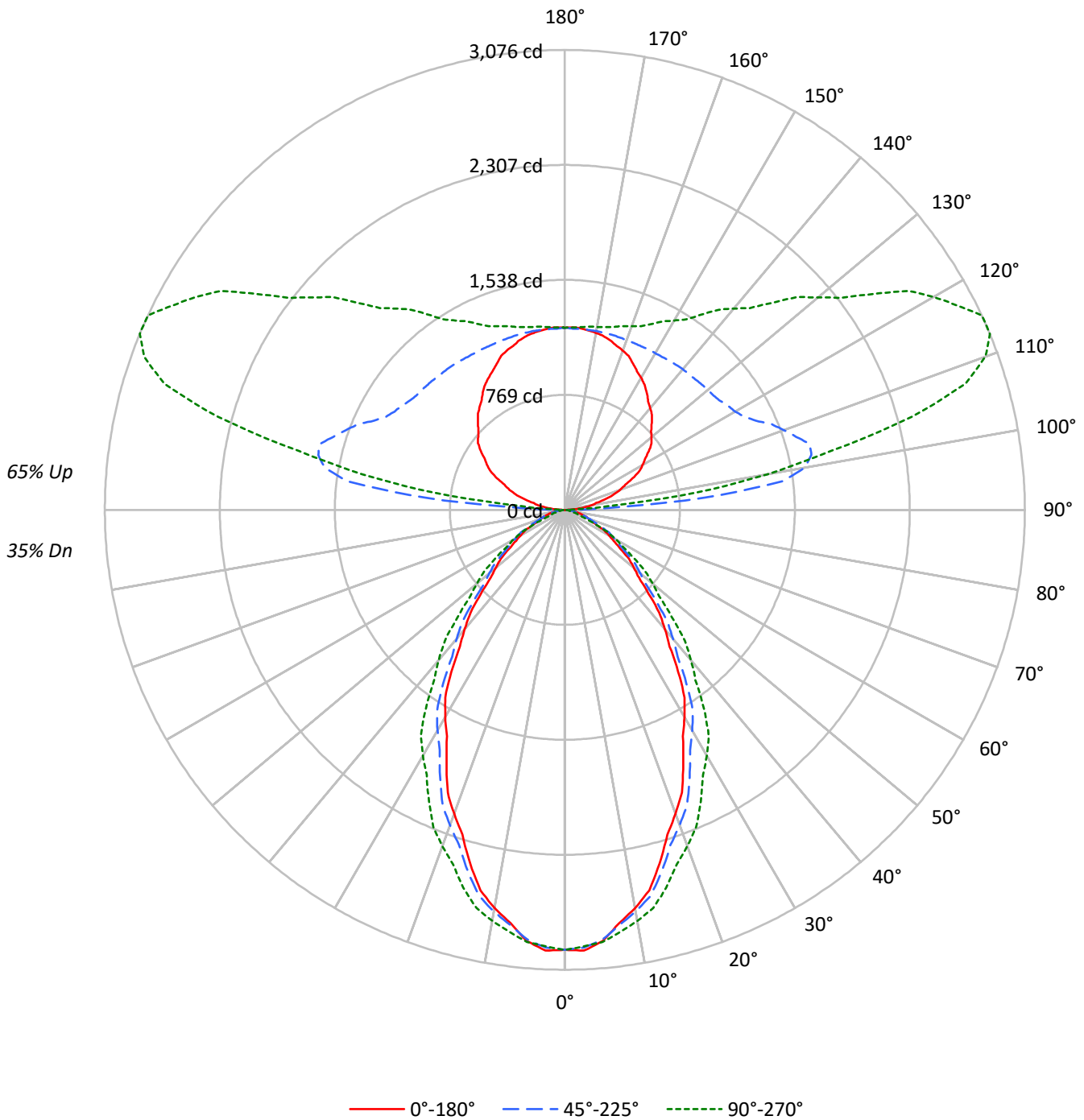
Lumens per Lamp: N/A
Luminaire Lumens: 12142.3 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 112.7
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35
1	95	91	88	85	86	83	80	77	67	65	63	52	51	50	39	38	38	31
2	87	81	75	71	79	73	69	65	60	56	54	47	45	43	35	34	33	28
3	80	72	65	60	73	65	60	55	53	49	46	42	40	37	32	30	29	24
4	74	64	57	51	67	58	52	47	48	44	40	38	35	33	29	27	26	22
5	68	57	50	44	62	53	46	41	43	39	35	35	31	29	27	25	23	20
6	63	52	44	39	57	47	41	36	39	35	31	32	28	26	25	22	21	18
7	58	47	40	34	53	43	37	32	36	31	28	29	26	23	23	20	19	16
8	54	43	36	31	49	39	33	29	33	28	25	27	23	21	21	19	17	15
9	51	39	32	27	46	36	30	26	30	26	22	25	21	19	20	17	16	13
10	47	36	29	25	43	33	27	23	28	23	20	23	20	17	18	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18102	18102	18102
5°	17876	17812	17916
10°	16889	17042	17437
15°	15591	15953	16668
20°	14158	14691	15663
25°	12699	13391	14592
30°	11355	12097	13482
35°	9929	10647	12169
40°	8357	9021	10534
45°	6897	7492	8795
50°	5759	6277	7328
55°	4888	5386	6051
60°	4178	4671	4830
65°	3327	3928	3120
70°	2949	3066	1904
75°	2731	2486	1167
80°	2515	2288	1006
85°	2279	2096	819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	2.2
10°-20°	702.1	5.8
20°-30°	909.5	7.5
30°-40°	890.6	7.3
40°-50°	681.7	5.6
50°-60°	454.2	3.7
60°-70°	247.9	2.0
70°-80°	103.3	0.9
80°-90°	31.8	0.3
90°-100°	565.9	4.7
100°-110°	1530.2	12.6
110°-120°	1608.7	13.2
120°-130°	1306.7	10.8
130°-140°	1025.0	8.4
140°-150°	786.7	6.5
150°-160°	565.8	4.7
160°-170°	345.6	2.8
170°-180°	116.5	1.0
0°-30°	1881.5	15.5
0°-40°	2772.1	22.8
0°-60°	3908.1	32.2
0°-90°	4291.0	35.3
90°-120°	3704.8	30.5
90°-150°	6823.3	56.2
90°-180°	7851.0	64.7
0°-180°	12142.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2943	2943	2943	2943	2943	
5°	2895	2866	2885	2892	2902	269
15°	2448	2440	2505	2573	2618	684
25°	1871	1876	1973	2059	2150	861
35°	1322	1329	1418	1513	1621	822
45°	793	808	861	926	1011	618
55°	456	475	502	521	564	413
65°	229	248	270	236	214	238
75°	115	115	105	72	49	123
85°	32	32	30	19	12	35
90°	3	8	17	18	17	7
95°	88	308	941	487	290	92
105°	284	440	1698	2504	2401	300
115°	501	612	1408	2725	3076	494
125°	686	786	1269	2141	2515	611
135°	822	919	1235	1729	1957	635
145°	956	1027	1218	1480	1593	598
155°	1079	1121	1207	1328	1371	498
165°	1174	1186	1212	1260	1266	331
175°	1219	1218	1214	1230	1227	116
180°	1218	1218	1218	1218	1218	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2943.0	2943.0	2943.0	2943.0	2943.0
2.5°	2950.2	2924.0	2930.6	2930.4	2922.3
5°	2895.2	2866.2	2884.9	2891.6	2901.7
7.5°	2787.8	2765.8	2799.9	2825.2	2845.6
10°	2704.1	2685.2	2728.6	2765.4	2791.9
12.5°	2607.0	2591.1	2645.0	2694.3	2728.9
15°	2448.4	2439.6	2505.2	2573.4	2617.6
17.5°	2278.7	2274.4	2349.8	2429.3	2485.9
20°	2163.0	2161.8	2244.4	2327.2	2392.9
22.5°	2046.3	2049.1	2135.9	2222.1	2296.8
25°	1871.2	1876.2	1973.2	2059.2	2150.1
27.5°	1709.2	1711.5	1811.8	1902.6	1999.5
30°	1598.7	1605.0	1703.3	1797.3	1898.3
32.5°	1488.2	1495.5	1591.7	1688.9	1791.9
35°	1322.3	1328.7	1417.9	1513.3	1620.7
37.5°	1151.4	1160.0	1239.2	1329.4	1435.0
40°	1040.8	1053.5	1123.5	1208.5	1312.0
42.5°	934.4	950.1	1015.0	1095.6	1189.1
45°	792.9	808.0	861.3	926.5	1011.1
47.5°	671.0	688.4	729.4	785.5	857.7
50°	601.8	618.2	656.0	697.6	765.8
52.5°	540.8	557.2	590.9	623.0	681.1
55°	455.8	474.8	502.3	521.4	564.3
57.5°	386.1	404.3	426.1	434.7	460.8
60°	339.6	359.8	379.7	378.7	392.6
62.5°	297.3	314.4	334.2	320.5	321.3
65°	228.6	247.5	269.9	235.8	214.4
67.5°	184.7	188.7	211.8	164.5	139.0
70°	164.0	164.0	170.5	127.4	105.9
72.5°	144.4	144.4	138.4	103.6	81.1
75°	114.9	114.9	104.6	71.8	49.1
77.5°	88.6	87.6	80.1	53.6	35.6
80°	71.0	71.0	64.6	42.3	28.4
82.5°	55.5	55.5	50.1	33.0	21.2
85°	32.3	32.3	29.7	19.2	11.6
87.5°	11.9	12.9	13.7	9.8	8.6
90°	2.6	7.7	17.0	18.3	17.0
92.5°	37.2	135.7	267.7	116.2	84.2
95°	87.8	308.3	941.2	487.1	289.7
97.5°	141.0	353.5	1467.1	1214.1	891.6
100°	180.9	371.9	1630.7	1700.6	1375.0
102.5°	217.6	397.3	1688.3	2069.5	1826.0
105°	284.4	439.5	1697.5	2503.9	2401.4
107.5°	346.3	487.8	1623.3	2775.0	2809.1
110°	394.6	522.7	1557.2	2847.8	2992.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	437.5	557.5	1496.4	2833.2	3076.5
115°	500.7	612.2	1407.8	2725.3	3076.5
117.5°	562.6	667.2	1349.4	2560.4	2958.5
120°	600.4	702.9	1314.7	2442.1	2848.4
122.5°	636.0	736.5	1293.8	2315.3	2724.7
125°	685.6	785.5	1268.9	2141.2	2515.4
127.5°	731.2	829.3	1254.2	1999.1	2328.3
130°	756.3	857.6	1247.9	1911.4	2208.7
132.5°	782.6	882.8	1241.6	1832.2	2106.0
135°	821.9	919.3	1234.8	1728.9	1957.0
137.5°	861.5	953.5	1229.0	1645.1	1830.9
140°	888.7	974.6	1226.9	1591.2	1756.5
142.5°	914.9	995.7	1222.7	1542.4	1687.3
145°	955.6	1027.4	1217.7	1479.8	1592.6
147.5°	992.5	1056.1	1212.0	1423.2	1509.8
150°	1019.8	1076.2	1209.9	1392.3	1461.6
152.5°	1045.0	1094.2	1208.8	1363.8	1420.7
155°	1078.8	1121.1	1207.3	1327.5	1371.1
157.5°	1113.9	1143.4	1207.5	1302.3	1331.0
160°	1133.9	1158.2	1208.6	1286.4	1306.9
162.5°	1149.6	1169.8	1209.6	1273.7	1289.1
165°	1174.5	1186.0	1212.5	1259.8	1266.2
167.5°	1191.5	1199.5	1212.8	1248.0	1251.0
170°	1202.0	1205.9	1213.8	1242.7	1242.7
172.5°	1210.4	1211.2	1213.8	1236.3	1235.3
175°	1219.1	1217.8	1213.8	1229.5	1226.9
177.5°	1221.9	1218.9	1213.6	1224.0	1220.9
180°	1217.7	1217.7	1217.7	1217.7	1217.7

(END OF REPORT)