

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: P519255

Luminaire Tested: **SQ4-WB-075U-125D-940-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519255
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-125D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

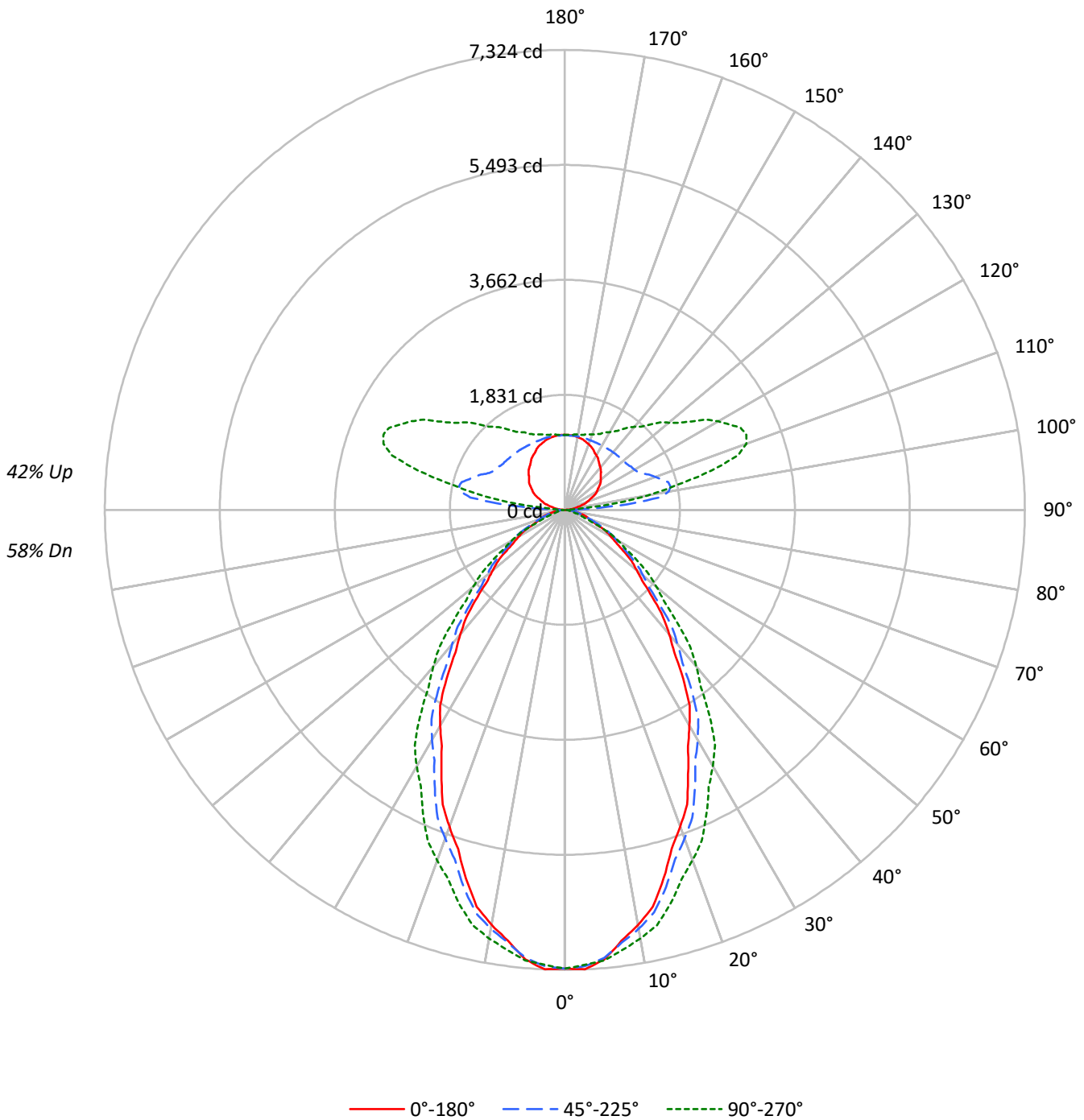
Lumens per Lamp: N/A
Luminaire Lumens: 18413.2 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 194.8
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58				58
1	101	97	94	90	94	91	88	85	79	77	75	68	66	65	58	57	56	51				51
2	93	86	81	76	87	81	76	72	71	67	64	61	59	57	53	51	49	45				45
3	86	77	70	65	80	72	67	62	64	59	56	56	52	50	48	46	44	40				40
4	79	69	62	57	74	65	59	54	58	53	49	51	47	44	44	41	39	36				36
5	73	63	55	50	68	59	52	47	52	47	43	46	42	39	40	37	35	32				32
6	68	57	49	44	64	54	47	42	48	42	38	42	38	35	37	34	31	29				29
7	63	52	44	39	59	49	42	38	44	39	35	39	35	32	34	31	29	26				26
8	59	48	40	35	55	45	39	34	40	35	31	36	32	29	32	29	26	24				24
9	55	44	37	32	52	42	35	31	37	32	29	34	29	26	30	26	24	22				22
10	52	41	34	29	49	39	32	28	35	30	26	31	27	24	28	25	22	20				20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22468	22468	22468
5°	22188	22109	22238
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14094	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9300	10917
50°	7148	7792	9095
55°	6067	6686	7511
60°	5186	5797	5994
65°	4129	4876	3873
70°	3661	3805	2364
75°	3390	3086	1447
80°	3122	2839	1249
85°	2826	2601	1020



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	670.1	3.6
10°-20°	1743.0	9.5
20°-30°	2257.7	12.3
30°-40°	2210.9	12.0
40°-50°	1692.3	9.2
50°-60°	1127.6	6.1
60°-70°	615.3	3.3
70°-80°	256.4	1.4
80°-90°	75.6	0.4
90°-100°	562.1	3.1
100°-110°	1546.5	8.4
110°-120°	1596.3	8.7
120°-130°	1279.0	6.9
130°-140°	1004.5	5.5
140°-150°	769.8	4.2
150°-160°	553.5	3.0
160°-170°	338.4	1.8
170°-180°	114.1	0.6
0°-30°	4670.8	25.4
0°-40°	6881.7	37.4
0°-60°	9701.6	52.7
0°-90°	10649.0	57.8
90°-120°	3704.9	20.1
90°-150°	6758.2	36.7
90°-180°	7764.0	42.2
0°-180°	18413.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7306	7306	7306	7306	7306	
5°	7187	7115	7162	7178	7203	669
15°	6078	6056	6219	6388	6498	1697
25°	4645	4658	4898	5112	5338	2136
35°	3283	3298	3520	3757	4023	2041
45°	1968	2006	2138	2300	2510	1535
55°	1132	1179	1247	1294	1401	1026
65°	567	614	670	585	532	590
75°	285	285	260	178	122	305
85°	80	80	74	48	29	87
90°	2	10	18	23	23	9
95°	84	307	994	425	271	88
105°	276	425	1704	2595	2422	291
115°	489	596	1367	2722	3089	483
125°	674	769	1240	2098	2457	602
135°	814	903	1204	1696	1920	628
145°	941	1005	1187	1445	1557	590
155°	1065	1100	1179	1299	1336	489
165°	1151	1166	1184	1233	1240	324
175°	1192	1194	1187	1202	1199	113
180°	1192	1192	1192	1192	1192	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7305.8	7305.8	7305.8	7305.8	7305.8
2.5°	7323.8	7258.6	7275.1	7274.6	7254.6
5°	7187.2	7115.1	7161.6	7178.2	7203.3
7.5°	6920.5	6866.0	6950.7	7013.4	7064.1
10°	6712.8	6665.8	6773.7	6865.0	6930.8
12.5°	6471.7	6432.2	6566.0	6688.5	6774.3
15°	6078.1	6056.1	6219.1	6388.3	6498.0
17.5°	5656.8	5646.2	5833.1	6030.6	6171.0
20°	5369.6	5366.5	5571.6	5777.2	5940.2
22.5°	5079.8	5086.7	5302.3	5516.1	5701.7
25°	4645.1	4657.6	4898.3	5111.8	5337.5
27.5°	4243.1	4248.7	4497.6	4723.0	4963.7
30°	3968.7	3984.4	4228.4	4461.7	4712.4
32.5°	3694.3	3712.5	3951.4	4192.5	4448.3
35°	3282.7	3298.3	3519.9	3756.8	4023.2
37.5°	2858.2	2879.5	3076.2	3300.2	3562.2
40°	2583.8	2615.2	2789.0	3000.0	3257.0
42.5°	2319.7	2358.5	2519.7	2719.9	2951.8
45°	1968.3	2005.9	2138.2	2300.1	2510.1
47.5°	1665.7	1709.0	1810.6	1949.9	2129.2
50°	1493.9	1534.6	1628.5	1731.7	1901.0
52.5°	1342.6	1383.3	1466.9	1546.5	1690.7
55°	1131.6	1178.6	1247.0	1294.3	1400.9
57.5°	958.5	1003.6	1057.9	1079.2	1143.8
60°	843.1	893.3	942.5	940.1	974.5
62.5°	738.0	780.6	829.6	795.7	797.6
65°	567.4	614.4	670.0	585.4	532.2
67.5°	458.4	468.4	525.7	408.3	344.9
70°	407.1	407.1	423.2	316.2	262.9
72.5°	358.4	358.4	343.7	257.1	201.3
75°	285.3	285.3	259.7	178.2	121.8
77.5°	219.9	217.4	198.8	133.0	88.5
80°	176.3	176.3	160.3	105.0	70.5
82.5°	137.8	137.8	124.4	82.0	52.6
85°	80.1	80.1	73.7	47.7	28.9
87.5°	28.7	30.2	29.2	19.9	17.4
90°	2.5	10.0	17.8	22.8	22.8
92.5°	35.0	149.5	259.2	99.5	81.7
95°	83.7	306.8	994.0	425.1	271.3
97.5°	136.4	340.2	1516.9	1168.8	824.6
100°	175.0	360.9	1681.2	1696.9	1384.5
102.5°	211.5	385.5	1723.8	2105.3	1818.7
105°	276.4	425.2	1704.0	2595.2	2421.7
107.5°	338.3	474.1	1607.2	2835.2	2886.7
110°	382.9	506.9	1534.1	2894.8	3073.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	423.5	543.5	1461.1	2856.4	3128.1
115°	489.4	596.0	1366.8	2721.6	3088.6
117.5°	552.3	650.5	1306.9	2532.5	2947.6
120°	590.8	685.1	1280.6	2390.8	2819.8
122.5°	625.3	719.5	1262.3	2266.6	2673.7
125°	674.5	768.7	1240.0	2097.7	2457.2
127.5°	721.2	810.9	1225.3	1956.7	2272.1
130°	745.5	837.3	1217.2	1872.9	2160.5
132.5°	773.9	865.7	1211.1	1799.2	2059.1
135°	814.0	903.2	1204.5	1696.4	1919.6
137.5°	851.5	934.3	1198.9	1613.4	1797.4
140°	879.9	956.8	1196.9	1558.2	1724.3
142.5°	904.3	975.2	1192.8	1509.0	1651.3
145°	940.8	1005.2	1186.7	1445.4	1557.0
147.5°	979.8	1035.4	1183.7	1389.1	1478.4
150°	1004.2	1053.8	1181.7	1358.2	1427.6
152.5°	1026.5	1072.1	1179.6	1331.6	1389.1
155°	1065.0	1099.7	1179.1	1299.2	1336.4
157.5°	1092.9	1121.2	1179.1	1272.5	1298.3
160°	1113.2	1135.5	1179.1	1258.2	1278.0
162.5°	1129.4	1147.8	1181.2	1245.9	1261.8
165°	1151.2	1166.1	1184.2	1232.6	1240.0
167.5°	1166.5	1177.9	1186.7	1221.3	1223.3
170°	1176.6	1184.0	1186.7	1217.2	1217.2
172.5°	1184.7	1188.2	1186.7	1211.0	1209.1
175°	1191.8	1194.3	1186.7	1201.9	1199.4
177.5°	1193.8	1193.8	1185.7	1197.8	1193.8
180°	1191.8	1191.8	1191.8	1191.8	1191.8

(END OF REPORT)