

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: P519207

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519207
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-075D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 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: 14233.7 lumens
Efficiency: N/A
Efficacy: 106.7 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

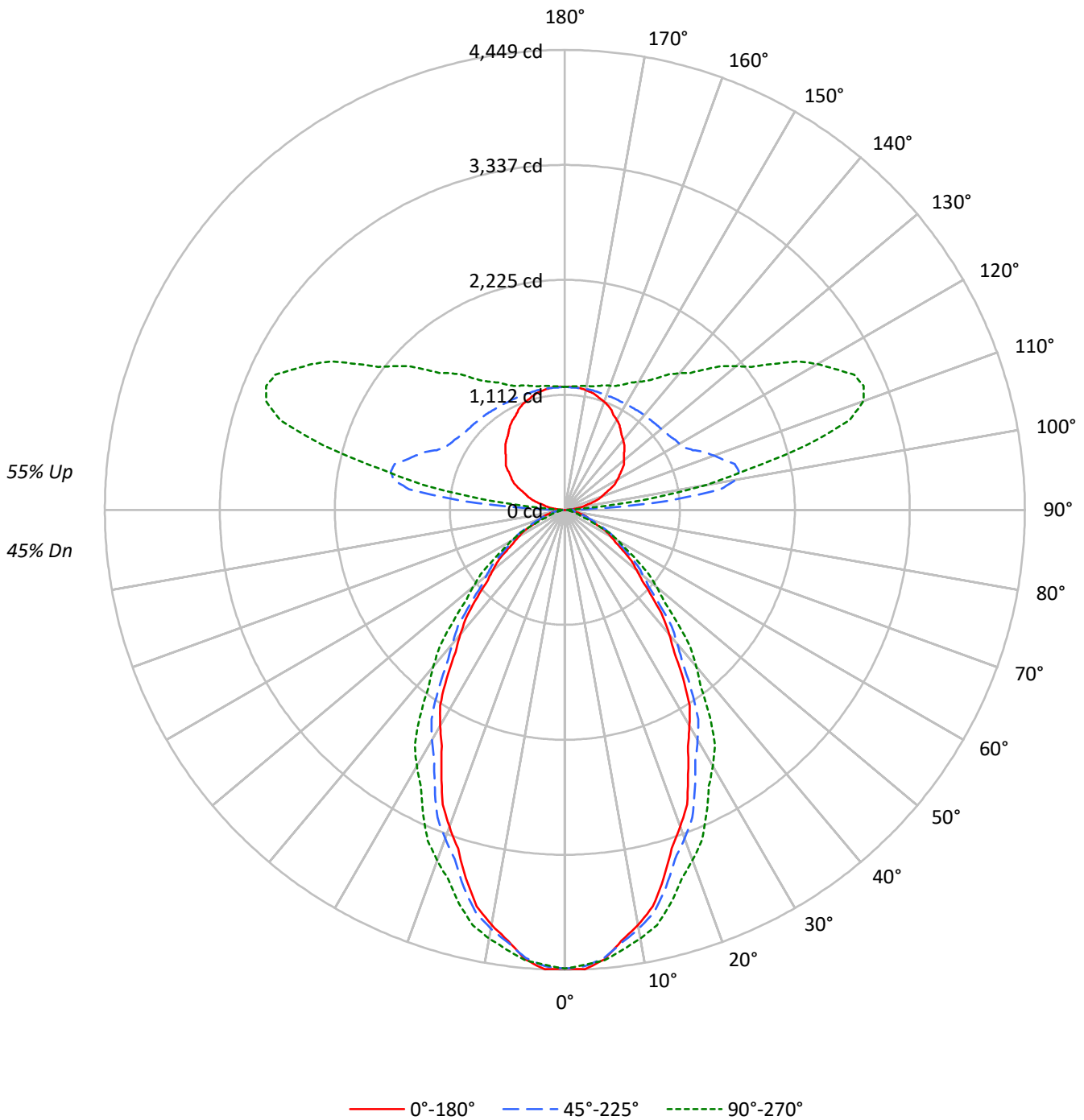
Input Watts (W): 133.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	47	46	40
2	90	83	78	73	82	77	72	68	65	61	58	53	51	49	43	42	40	36
3	83	74	67	62	76	69	63	58	58	54	50	48	45	43	39	37	36	31
4	76	66	59	54	70	61	55	50	52	48	44	44	40	38	36	34	32	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	47	41	60	50	44	39	43	38	34	36	33	30	30	28	26	23
7	61	49	42	37	56	46	39	35	39	34	31	34	30	27	28	25	23	21
8	56	45	38	33	52	42	36	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	34	29	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	30	25	31	26	23	27	23	20	23	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13648	13648	13648
5°	13477	13429	13508
10°	12733	12849	13147
15°	11755	12027	12567
20°	10674	11076	11809
25°	9574	10096	11002
30°	8560	9121	10165
35°	7486	8027	9175
40°	6301	6801	7943
45°	5200	5649	6631
50°	4341	4733	5525
55°	3686	4062	4562
60°	3150	3521	3641
65°	2508	2962	2352
70°	2224	2311	1436
75°	2059	1874	879
80°	1897	1725	758
85°	1718	1581	618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	407.0	2.9
10°-20°	1058.7	7.4
20°-30°	1371.4	9.6
30°-40°	1342.9	9.4
40°-50°	1027.9	7.2
50°-60°	685.0	4.8
60°-70°	373.8	2.6
70°-80°	155.7	1.1
80°-90°	47.1	0.3
90°-100°	562.1	3.9
100°-110°	1546.5	10.9
110°-120°	1596.3	11.2
120°-130°	1279.0	9.0
130°-140°	1004.5	7.1
140°-150°	769.8	5.4
150°-160°	553.5	3.9
160°-170°	338.4	2.4
170°-180°	114.1	0.8
0°-30°	2837.1	19.9
0°-40°	4180.0	29.4
0°-60°	5892.9	41.4
0°-90°	6469.5	45.5
90°-120°	3704.9	26.0
90°-150°	6758.2	47.5
90°-180°	7764.0	54.5
0°-180°	14233.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4438	4438	4438	4438	4438	
5°	4366	4322	4350	4360	4375	406
15°	3692	3679	3778	3880	3947	1031
25°	2822	2829	2975	3105	3242	1298
35°	1994	2004	2138	2282	2444	1240
45°	1196	1218	1299	1397	1525	932
55°	687	716	758	786	851	623
65°	345	373	407	356	323	358
75°	173	173	158	108	74	185
85°	49	49	45	29	18	53
90°	2	10	18	23	23	8
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°	4437.7	4437.7	4437.7	4437.7	4437.7
2.5°	4448.6	4409.0	4419.0	4418.7	4406.5
5°	4365.6	4321.8	4350.1	4360.1	4375.4
7.5°	4203.6	4170.5	4221.9	4260.0	4290.9
10°	4077.4	4048.9	4114.4	4169.9	4209.9
12.5°	3931.0	3907.0	3988.3	4062.7	4114.8
15°	3691.9	3678.6	3777.6	3880.3	3947.0
17.5°	3436.0	3429.6	3543.1	3663.1	3748.4
20°	3261.6	3259.7	3384.2	3509.2	3608.2
22.5°	3085.5	3089.7	3220.7	3350.6	3463.3
25°	2821.5	2829.1	2975.3	3105.0	3242.1
27.5°	2577.3	2580.7	2731.9	2868.8	3015.1
30°	2410.6	2420.2	2568.4	2710.1	2862.4
32.5°	2244.0	2255.0	2400.1	2546.6	2701.9
35°	1993.9	2003.5	2138.0	2281.9	2443.7
37.5°	1736.1	1749.1	1868.5	2004.6	2163.7
40°	1569.4	1588.5	1694.1	1822.2	1978.4
42.5°	1409.0	1432.6	1530.5	1652.1	1793.0
45°	1195.6	1218.4	1298.8	1397.1	1524.7
47.5°	1011.8	1038.0	1099.8	1184.4	1293.3
50°	907.4	932.1	989.2	1051.9	1154.7
52.5°	815.5	840.2	891.0	939.4	1027.0
55°	687.4	715.9	757.5	786.2	850.9
57.5°	582.2	609.6	642.6	655.5	694.8
60°	512.1	542.6	572.5	571.0	592.0
62.5°	448.2	474.1	503.9	483.3	484.5
65°	344.7	373.2	407.0	355.6	323.2
67.5°	278.5	284.5	319.3	248.0	209.5
70°	247.3	247.3	257.0	192.0	159.7
72.5°	217.7	217.7	208.7	156.2	122.3
75°	173.3	173.3	157.7	108.3	74.0
77.5°	133.6	132.1	120.7	80.8	53.7
80°	107.1	107.1	97.4	63.8	42.8
82.5°	83.7	83.7	75.6	49.8	31.9
85°	48.7	48.7	44.8	28.9	17.5
87.5°	17.6	19.1	19.1	13.9	12.4
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)