

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: P563437

Luminaire Tested: **SQ4-PP3-075U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563437
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-075U-100D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

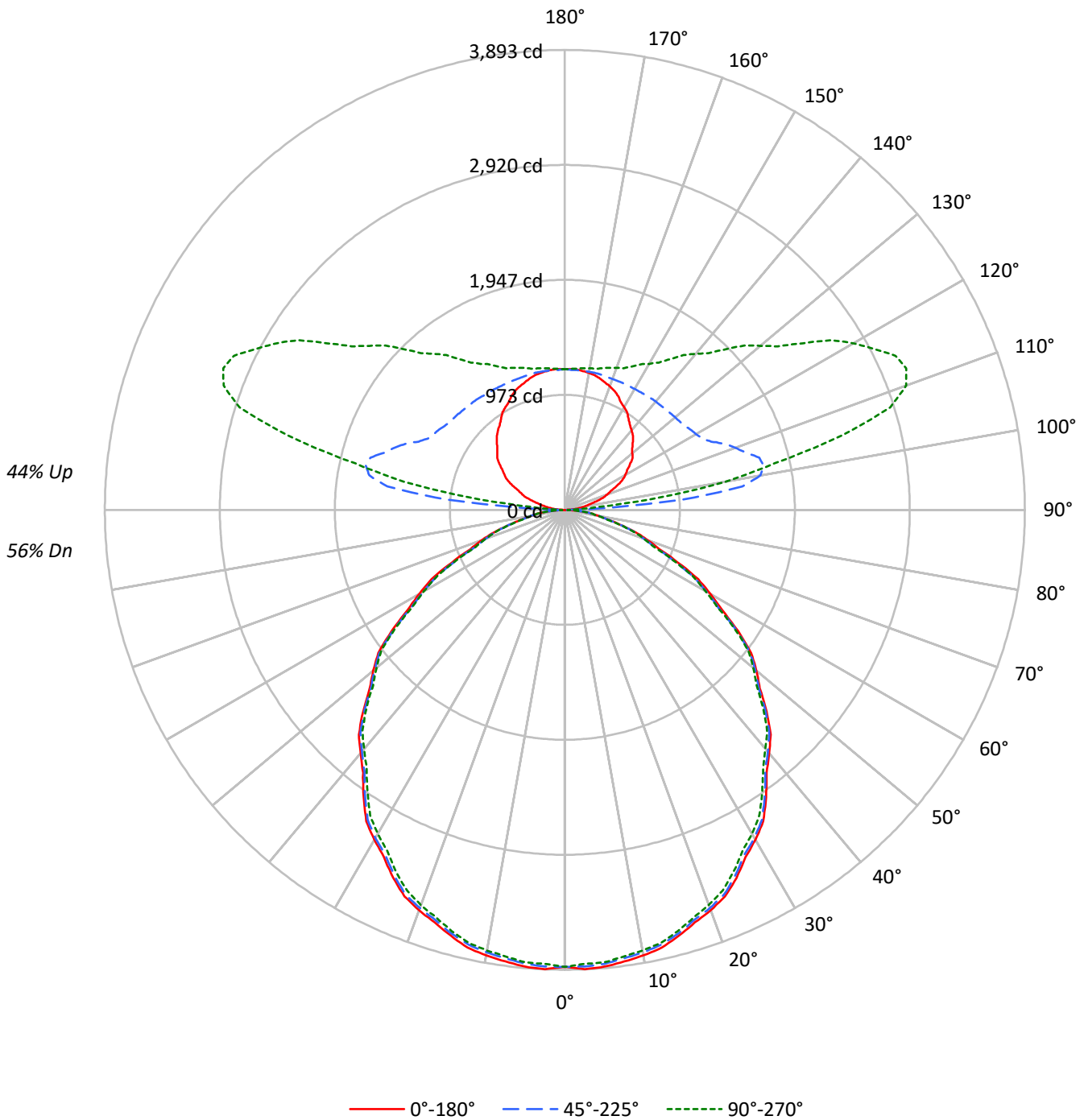
Lumens per Lamp: N/A
Luminaire Lumens: 17667.7 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 162.2
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56
1	99	95	91	88	92	89	85	82	76	74	72	65	63	62	55	54	53	48
2	91	83	77	72	84	78	72	68	67	63	60	58	55	52	49	46	45	40
3	83	73	66	60	77	69	62	57	59	54	50	51	47	44	43	40	38	34
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30
5	70	58	50	44	65	54	47	42	47	42	37	41	36	33	35	31	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	32	29	32	28	25	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	25	23	20
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	32	27	23	28	24	21	24	21	18	16
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11984	11910	11869
10°	11963	11879	11826
15°	11884	11820	11755
20°	11806	11739	11650
25°	11665	11584	11469
30°	11449	11389	11244
35°	11150	11074	10933
40°	10793	10725	10603
45°	10498	10425	10321
50°	10122	10056	9959
55°	9598	9471	9398
60°	8737	8487	8445
65°	7697	7377	7352
70°	6646	6371	6371
75°	5720	5639	5559
80°	5044	5104	4984
85°	3949	4305	4305



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	2.1
10°-20°	1044.4	5.9
20°-30°	1564.4	8.9
30°-40°	1834.9	10.4
40°-50°	1840.7	10.4
50°-60°	1570.2	8.9
60°-70°	1024.1	5.8
70°-80°	513.8	2.9
80°-90°	145.2	0.8
90°-100°	562.1	3.2
100°-110°	1546.5	8.8
110°-120°	1596.3	9.0
120°-130°	1279.0	7.2
130°-140°	1004.5	5.7
140°-150°	769.8	4.4
150°-160°	553.5	3.1
160°-170°	338.4	1.9
170°-180°	114.1	0.6
0°-30°	2974.6	16.8
0°-40°	4809.5	27.2
0°-60°	8220.4	46.5
0°-90°	9903.5	56.1
90°-120°	3704.9	21.0
90°-150°	6758.2	38.3
90°-180°	7764.0	43.9
0°-180°	17667.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3868	3868	3868	3868	3868	
5°	3882	3845	3858	3844	3844	369
15°	3733	3696	3712	3698	3692	1053
25°	3438	3398	3414	3383	3380	1581
35°	2970	2940	2950	2916	2912	1855
45°	2414	2397	2397	2373	2373	1859
55°	1790	1783	1766	1756	1753	1591
65°	1058	1038	1014	1007	1010	1056
75°	481	481	475	471	468	522
85°	112	122	122	122	122	132
90°	2	10	18	23	23	10
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°	3868.2	3868.2	3868.2	3868.2	3868.2
2.5°	3892.6	3860.8	3868.2	3862.4	3846.5
5°	3881.8	3845.3	3858.0	3844.5	3844.5
7.5°	3855.3	3815.5	3828.2	3814.6	3814.0
10°	3830.9	3791.1	3803.8	3790.2	3786.8
12.5°	3795.7	3755.9	3771.2	3755.0	3754.3
15°	3732.6	3696.1	3712.3	3698.5	3691.9
17.5°	3661.4	3621.6	3641.1	3622.0	3619.4
20°	3607.2	3567.4	3586.8	3559.7	3559.7
22.5°	3542.1	3502.3	3524.4	3489.2	3489.2
25°	3437.7	3397.9	3413.9	3383.3	3380.0
27.5°	3313.6	3274.5	3291.2	3256.6	3255.9
30°	3224.1	3187.6	3207.1	3169.8	3166.4
32.5°	3126.4	3092.6	3106.8	3069.4	3066.1
35°	2969.8	2940.0	2949.5	2915.5	2912.2
37.5°	2805.0	2774.5	2785.4	2756.2	2754.9
40°	2688.4	2668.5	2671.5	2647.6	2641.0
42.5°	2579.9	2557.4	2560.3	2536.5	2535.2
45°	2413.8	2397.2	2396.9	2373.1	2373.1
47.5°	2237.5	2224.9	2221.3	2201.6	2200.9
50°	2115.5	2105.5	2101.9	2084.9	2081.6
52.5°	1988.0	1983.4	1971.7	1957.5	1956.8
55°	1790.0	1783.4	1766.3	1756.0	1752.7
57.5°	1575.1	1561.8	1542.5	1527.7	1530.3
60°	1420.5	1407.2	1379.8	1373.0	1373.0
62.5°	1271.3	1255.4	1227.9	1218.6	1223.9
65°	1057.7	1037.9	1013.7	1007.0	1010.3
67.5°	863.8	845.9	819.7	819.7	817.0
70°	739.1	729.1	708.5	708.5	708.5
72.5°	627.9	623.2	608.2	608.1	605.5
75°	481.4	481.4	474.6	471.2	467.8
77.5°	360.7	362.0	358.7	355.2	349.2
80°	284.8	291.4	288.2	284.7	281.4
82.5°	214.3	220.9	220.4	214.2	213.6
85°	111.9	121.8	122.0	122.0	122.0
87.5°	30.3	42.4	46.9	48.0	50.7
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)