

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: P562765

Luminaire Tested: **SQ4-PC3-075U-100D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562765
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-075U-100D-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

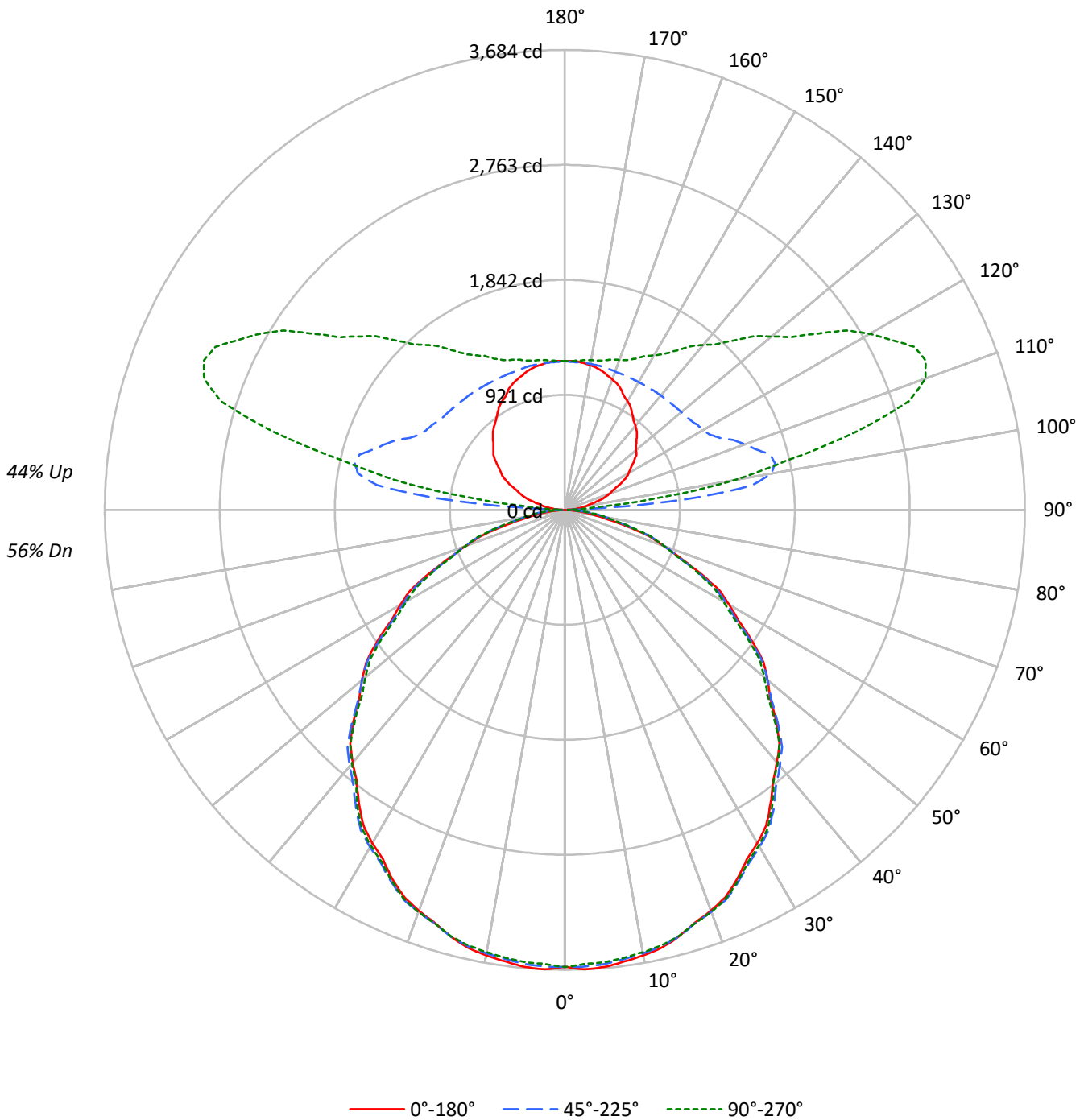
Lumens per Lamp: N/A
Luminaire Lumens: 17762.3 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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																		
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	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	88	85	82	76	74	72	65	63	62	55	54	52	48																												
2	90	83	77	72	84	77	72	67	67	63	59	57	54	52	48	46	44	40																												
3	82	73	65	60	76	68	62	56	59	54	50	51	47	44	43	40	38	34																												
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32	29																												
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28	25																												
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	28	25	22																												
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	25	22	19																												
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20	17																												
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18	16																												
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16	14																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11263	11263	11263
5°	11348	11275	11233
10°	11320	11267	11235
15°	11261	11261	11250
20°	11187	11220	11220
25°	11081	11162	11127
30°	10946	11079	11030
35°	10783	10949	10872
40°	10605	10755	10646
45°	10412	10486	10324
50°	10140	10140	9978
55°	9818	9691	9546
60°	9344	9156	9010
65°	8636	8464	8390
70°	7562	7622	7593
75°	6084	6729	6769
80°	4325	5705	5765
85°	2632	4785	4785



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.6	2.0
10°-20°	994.6	5.6
20°-30°	1506.2	8.5
30°-40°	1805.8	10.2
40°-50°	1841.3	10.4
50°-60°	1607.3	9.0
60°-70°	1150.7	6.5
70°-80°	592.7	3.3
80°-90°	152.9	0.9
90°-100°	562.1	3.2
100°-110°	1546.5	8.7
110°-120°	1596.3	9.0
120°-130°	1279.0	7.2
130°-140°	1004.5	5.7
140°-150°	769.8	4.3
150°-160°	553.5	3.1
160°-170°	338.4	1.9
170°-180°	114.1	0.6
0°-30°	2847.5	16.0
0°-40°	4653.2	26.2
0°-60°	8101.8	45.6
0°-90°	9998.1	56.3
90°-120°	3704.9	20.9
90°-150°	6758.2	38.0
90°-180°	7764.0	43.7
0°-180°	17762.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3662	3662	3662	3662	3662	
5°	3676	3639	3652	3642	3638	349
15°	3537	3507	3537	3537	3533	997
25°	3266	3242	3289	3279	3279	1503
35°	2872	2866	2916	2896	2896	1796
45°	2394	2387	2411	2380	2374	1843
55°	1831	1808	1807	1780	1780	1632
65°	1187	1160	1163	1153	1153	1174
75°	512	535	566	570	570	553
85°	75	114	136	139	136	101
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°	3662.3	3662.3	3662.3	3662.3	3662.3
2.5°	3684.0	3652.1	3662.3	3653.8	3640.6
5°	3675.8	3639.4	3652.1	3641.9	3638.5
7.5°	3649.4	3612.9	3629.7	3622.9	3619.5
10°	3625.0	3588.5	3608.0	3601.2	3597.8
12.5°	3592.4	3558.6	3580.9	3574.1	3573.4
15°	3536.8	3507.0	3536.8	3536.7	3533.4
17.5°	3467.0	3439.8	3471.7	3473.7	3471.7
20°	3418.1	3388.3	3428.3	3425.0	3428.3
22.5°	3358.4	3333.9	3376.8	3368.0	3371.3
25°	3265.5	3242.3	3289.3	3279.1	3279.1
27.5°	3155.7	3139.1	3190.2	3179.4	3179.4
30°	3082.4	3065.8	3119.7	3106.1	3106.1
32.5°	3001.0	2989.8	3041.0	3024.8	3024.8
35°	2872.2	2865.5	2916.3	2895.9	2895.9
37.5°	2739.2	2733.3	2779.3	2754.7	2746.7
40°	2641.6	2638.3	2678.9	2651.8	2651.8
42.5°	2543.9	2540.6	2575.8	2543.2	2543.2
45°	2394.0	2387.4	2411.0	2380.3	2373.7
47.5°	2230.6	2224.0	2238.7	2205.4	2202.1
50°	2119.4	2112.7	2119.4	2088.8	2085.5
52.5°	2005.4	1993.5	1994.6	1964.0	1963.4
55°	1831.1	1807.9	1807.4	1780.3	1780.3
57.5°	1646.7	1616.2	1618.9	1595.7	1592.4
60°	1519.2	1486.0	1488.6	1468.2	1464.9
62.5°	1394.4	1355.9	1363.9	1340.8	1340.1
65°	1186.8	1160.3	1163.1	1152.9	1152.9
67.5°	987.5	962.9	980.7	972.5	971.9
70°	841.0	824.4	847.7	847.7	844.4
72.5°	705.3	704.7	733.8	733.9	735.8
75°	512.0	535.2	566.3	569.7	569.7
77.5°	341.8	382.9	417.1	418.4	417.8
80°	244.2	290.6	322.1	328.9	325.5
82.5°	165.5	214.6	240.8	247.5	244.2
85°	74.6	114.4	135.6	139.0	135.6
87.5°	22.2	47.6	57.8	58.7	53.4
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)