

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: P562784

Luminaire Tested: **SQ4-PC3-075U-125D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562784
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-125D-930-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

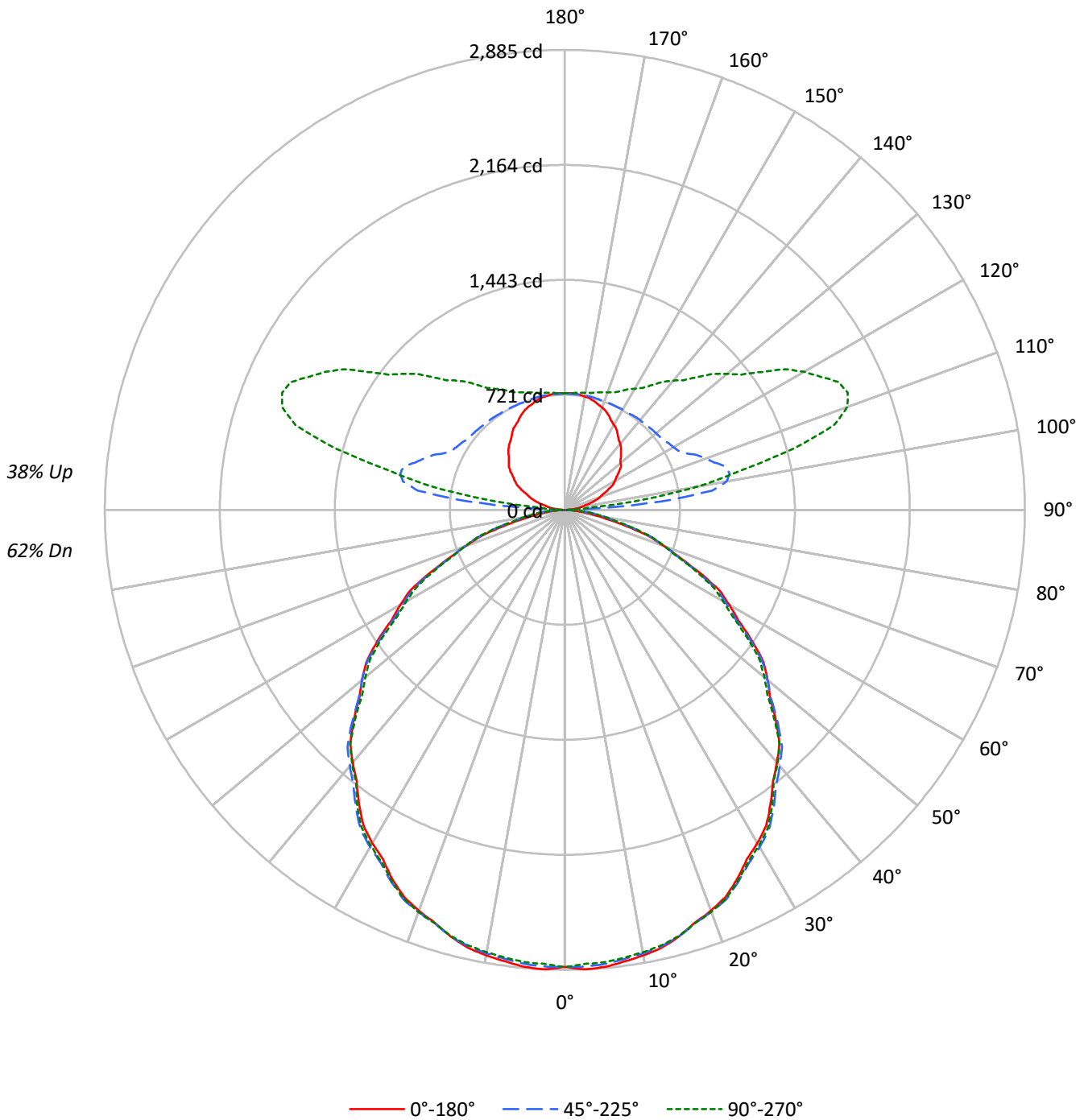
Lumens per Lamp: N/A
Luminaire Lumens: 12593.8 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 127.7
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57	53
2	92	84	78	73	86	79	73	69	69	65	62	61	57	55	52	50	48	44
3	84	74	66	60	78	70	63	57	61	56	52	54	50	46	46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35	32
5	70	58	50	44	66	55	47	42	49	43	38	43	38	34	37	34	31	28
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27	24
7	60	47	39	33	56	45	37	32	40	34	29	35	30	27	31	27	24	21
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19	17
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	17	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13230	13230	13230
5°	13330	13244	13195
10°	13298	13235	13198
15°	13228	13228	13215
20°	13141	13180	13180
25°	13017	13111	13071
30°	12858	13014	12957
35°	12667	12861	12771
40°	12458	12634	12505
45°	12231	12318	12127
50°	11911	11911	11721
55°	11533	11384	11213
60°	10976	10756	10584
65°	10145	9943	9856
70°	8883	8955	8918
75°	7147	7905	7951
80°	5079	6703	6772
85°	3091	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.4	2.2
10°-20°	778.9	6.2
20°-30°	1179.6	9.4
30°-40°	1414.1	11.2
40°-50°	1441.9	11.4
50°-60°	1258.7	10.0
60°-70°	901.1	7.2
70°-80°	464.1	3.7
80°-90°	119.2	0.9
90°-100°	344.9	2.7
100°-110°	949.1	7.5
110°-120°	979.6	7.8
120°-130°	784.8	6.2
130°-140°	616.4	4.9
140°-150°	472.4	3.8
150°-160°	339.7	2.7
160°-170°	207.7	1.6
170°-180°	70.0	0.6
0°-30°	2229.9	17.7
0°-40°	3644.0	28.9
0°-60°	6344.7	50.4
0°-90°	7829.2	62.2
90°-120°	2273.6	18.1
90°-150°	4147.3	32.9
90°-180°	4765.0	37.8
0°-180°	12593.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2868	2868	2868	2868	2868	
5°	2879	2850	2860	2852	2849	273
15°	2770	2746	2770	2770	2767	781
25°	2557	2539	2576	2568	2568	1177
35°	2249	2244	2284	2268	2268	1407
45°	1875	1870	1888	1864	1859	1443
55°	1434	1416	1415	1394	1394	1278
65°	929	909	911	903	903	919
75°	401	419	444	446	446	433
85°	58	90	106	109	106	79
90°	2	6	11	14	14	6
95°	51	188	610	261	166	54
105°	170	261	1046	1593	1486	179
115°	300	366	839	1670	1895	296
125°	414	472	761	1287	1508	369
135°	500	554	739	1041	1178	385
145°	577	617	728	887	956	362
155°	654	675	724	797	820	300
165°	706	716	727	756	761	199
175°	731	733	728	738	736	69
180°	731	731	731	731	731	

TEST NUMBER: P562784

CATALOG NUMBER: SQ4-PC3-075U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2868.0	2868.0	2868.0	2868.0	2868.0
2.5°	2885.0	2860.1	2868.0	2861.4	2851.0
5°	2878.6	2850.1	2860.0	2852.0	2849.4
7.5°	2857.9	2829.4	2842.5	2837.1	2834.5
10°	2838.8	2810.2	2825.5	2820.1	2817.5
12.5°	2813.3	2786.8	2804.3	2798.9	2798.4
15°	2769.7	2746.4	2769.7	2769.7	2767.1
17.5°	2715.0	2693.8	2718.8	2720.3	2718.8
20°	2676.8	2653.4	2684.8	2682.2	2684.8
22.5°	2630.1	2610.9	2644.4	2637.6	2640.2
25°	2557.3	2539.1	2575.9	2567.9	2567.9
27.5°	2471.3	2458.3	2498.3	2489.9	2489.9
30°	2413.9	2400.9	2443.1	2432.5	2432.5
32.5°	2350.2	2341.3	2381.5	2368.8	2368.8
35°	2249.3	2244.1	2283.8	2267.8	2267.8
37.5°	2145.2	2140.5	2176.5	2157.2	2151.0
40°	2068.7	2066.1	2097.9	2076.6	2076.6
42.5°	1992.2	1989.6	2017.2	1991.7	1991.7
45°	1874.8	1869.6	1888.1	1864.1	1858.9
47.5°	1746.8	1741.6	1753.2	1727.1	1724.5
50°	1659.7	1654.5	1659.7	1635.8	1633.2
52.5°	1570.5	1561.1	1562.0	1538.1	1537.6
55°	1434.0	1415.8	1415.4	1394.2	1394.2
57.5°	1289.5	1265.7	1267.8	1249.6	1247.1
60°	1189.7	1163.7	1165.8	1149.8	1147.2
62.5°	1092.0	1061.8	1068.1	1050.0	1049.5
65°	929.4	908.7	910.9	902.9	902.9
67.5°	773.3	754.1	768.0	761.6	761.1
70°	658.6	645.6	663.9	663.8	661.2
72.5°	552.4	551.8	574.7	574.7	576.3
75°	401.0	419.2	443.5	446.1	446.1
77.5°	267.7	299.9	326.6	327.7	327.2
80°	191.2	227.6	252.3	257.5	254.9
82.5°	129.6	168.0	188.5	193.8	191.2
85°	58.4	89.6	106.2	108.8	106.2
87.5°	17.3	36.9	44.7	45.2	41.0
90°	1.6	6.1	10.9	14.0	14.0
92.5°	21.5	91.8	159.0	61.1	50.1
95°	51.4	188.3	610.0	260.8	166.5
97.5°	83.7	208.8	930.9	717.2	506.1
100°	107.4	221.5	1031.7	1041.4	849.6
102.5°	129.8	236.6	1057.9	1291.9	1116.1
105°	169.6	260.9	1045.7	1592.6	1486.1
107.5°	207.6	291.0	986.3	1739.8	1771.5
110°	235.0	311.1	941.5	1776.5	1886.0

TEST NUMBER: P562784

CATALOG NUMBER: SQ4-PC3-075U-125D-930-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.9	333.5	896.6	1752.9	1919.6
115°	300.3	365.8	838.8	1670.2	1895.4
117.5°	338.9	399.2	802.0	1554.1	1808.8
120°	362.6	420.4	785.8	1467.2	1730.4
122.5°	383.7	441.6	774.6	1390.9	1640.8
125°	413.9	471.7	760.9	1287.3	1507.9
127.5°	442.6	497.6	751.9	1200.7	1394.3
130°	457.5	513.8	746.9	1149.3	1325.8
132.5°	474.9	531.2	743.2	1104.1	1263.6
135°	499.5	554.3	739.2	1041.0	1178.0
137.5°	522.5	573.4	735.7	990.1	1103.0
140°	540.0	587.1	734.5	956.2	1058.2
142.5°	554.9	598.4	732.0	926.0	1013.3
145°	577.3	616.9	728.3	887.0	955.5
147.5°	601.3	635.4	726.4	852.4	907.2
150°	616.2	646.7	725.2	833.5	876.1
152.5°	629.9	657.9	723.9	817.1	852.4
155°	653.6	674.9	723.6	797.3	820.1
157.5°	670.7	688.0	723.6	780.9	796.7
160°	683.1	696.8	723.6	772.1	784.3
162.5°	693.1	704.4	724.8	764.6	774.3
165°	706.5	715.6	726.7	756.4	760.9
167.5°	715.8	722.8	728.3	749.5	750.7
170°	722.0	726.6	728.3	746.9	746.9
172.5°	727.0	729.2	728.3	743.2	742.0
175°	731.4	732.9	728.3	737.6	736.0
177.5°	732.6	732.6	727.6	735.1	732.6
180°	731.4	731.4	731.4	731.4	731.4

(END OF REPORT)