

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: P562789

Luminaire Tested: **SQ4-PC3-075U-125D-940-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562789
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-940-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
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: 20522.2 lumens
Efficiency: N/A
Efficacy: 105.4 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: Semi-Direct

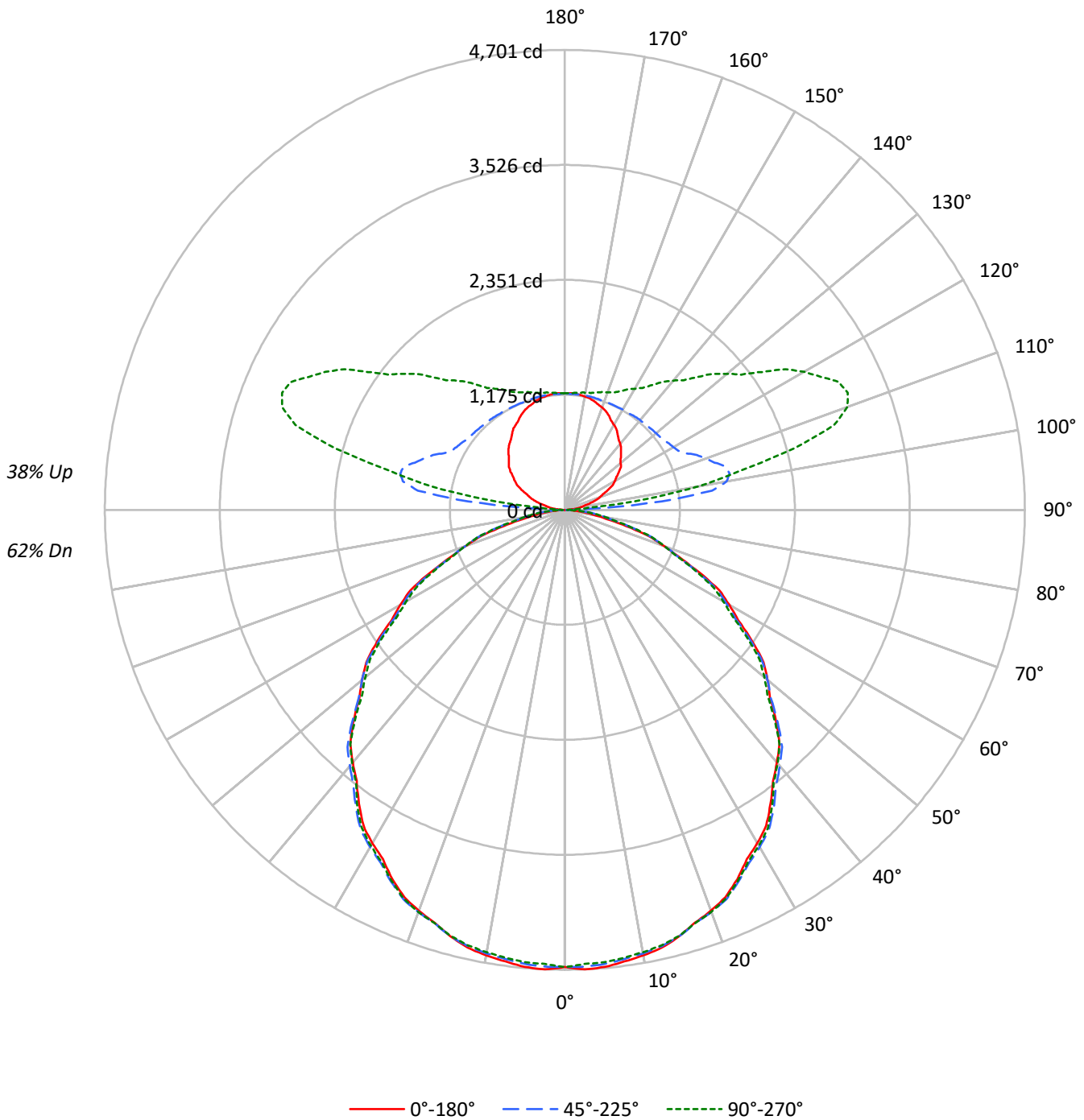
Input Watts (W): 194.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	14373	14373	14373
5°	14482	14388	14335
10°	14446	14379	14338
15°	14370	14370	14356
20°	14276	14318	14318
25°	14141	14243	14200
30°	13969	14138	14076
35°	13761	13972	13875
40°	13533	13724	13586
45°	13287	13382	13175
50°	12940	12940	12733
55°	12529	12367	12181
60°	11925	11685	11498
65°	11022	10801	10707
70°	9650	9727	9689
75°	7764	8587	8639
80°	5519	7281	7357
85°	3359	6108	6108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.3	2.2
10°-20°	1269.3	6.2
20°-30°	1922.2	9.4
30°-40°	2304.4	11.2
40°-50°	2349.7	11.4
50°-60°	2051.2	10.0
60°-70°	1468.4	7.2
70°-80°	756.3	3.7
80°-90°	194.3	0.9
90°-100°	562.1	2.7
100°-110°	1546.5	7.5
110°-120°	1596.3	7.8
120°-130°	1279.0	6.2
130°-140°	1004.5	4.9
140°-150°	769.8	3.8
150°-160°	553.5	2.7
160°-170°	338.4	1.6
170°-180°	114.1	0.6
0°-30°	3633.7	17.7
0°-40°	5938.1	28.9
0°-60°	10339.0	50.4
0°-90°	12758.1	62.2
90°-120°	3704.9	18.1
90°-150°	6758.2	32.9
90°-180°	7764.0	37.8
0°-180°	20522.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4674	4674	4674	4674	4674	
5°	4691	4644	4661	4648	4643	445
15°	4513	4475	4513	4513	4509	1273
25°	4167	4138	4198	4185	4185	1918
35°	3665	3657	3722	3696	3696	2292
45°	3055	3047	3077	3038	3029	2352
55°	2337	2307	2306	2272	2272	2083
65°	1515	1481	1484	1471	1471	1498
75°	653	683	723	727	727	706
85°	95	146	173	177	173	129
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°	4673.6	4673.6	4673.6	4673.6	4673.6
2.5°	4701.2	4660.6	4673.6	4662.8	4645.9
5°	4690.9	4644.3	4660.6	4647.5	4643.3
7.5°	4657.1	4610.6	4632.0	4623.3	4619.0
10°	4625.9	4579.4	4604.3	4595.6	4591.3
12.5°	4584.4	4541.2	4569.7	4561.0	4560.2
15°	4513.4	4475.4	4513.4	4513.3	4509.1
17.5°	4424.3	4389.6	4430.4	4432.9	4430.4
20°	4362.0	4323.9	4375.0	4370.7	4375.0
22.5°	4285.8	4254.5	4309.2	4298.0	4302.3
25°	4167.2	4137.6	4197.5	4184.6	4184.6
27.5°	4027.0	4005.9	4071.2	4057.3	4057.3
30°	3933.6	3912.4	3981.2	3963.9	3963.9
32.5°	3829.7	3815.3	3880.8	3860.0	3860.0
35°	3665.3	3656.8	3721.5	3695.6	3695.6
37.5°	3495.6	3488.0	3546.7	3515.3	3505.2
40°	3371.0	3366.8	3418.6	3384.0	3384.0
42.5°	3246.4	3242.2	3287.1	3245.5	3245.5
45°	3055.1	3046.7	3076.8	3037.6	3029.2
47.5°	2846.5	2838.1	2856.9	2814.4	2810.2
50°	2704.6	2696.1	2704.6	2665.6	2661.3
52.5°	2559.2	2544.0	2545.4	2506.4	2505.5
55°	2336.8	2307.2	2306.5	2271.9	2271.9
57.5°	2101.4	2062.4	2065.9	2036.4	2032.1
60°	1938.7	1896.3	1899.7	1873.7	1869.4
62.5°	1779.4	1730.3	1740.5	1711.0	1710.2
65°	1514.6	1480.7	1484.3	1471.3	1471.3
67.5°	1260.1	1228.8	1251.5	1241.1	1240.2
70°	1073.2	1052.0	1081.8	1081.7	1077.5
72.5°	900.1	899.2	936.4	936.5	939.0
75°	653.4	683.0	722.7	727.0	727.0
77.5°	436.2	488.7	532.3	534.0	533.1
80°	311.6	370.8	411.1	419.7	415.4
82.5°	211.2	273.8	307.2	315.8	311.6
85°	95.2	146.0	173.1	177.3	173.1
87.5°	28.2	60.2	72.8	73.6	66.9
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)