

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: P562757

Luminaire Tested: **SQ4-PC3-075U-100D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562757
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

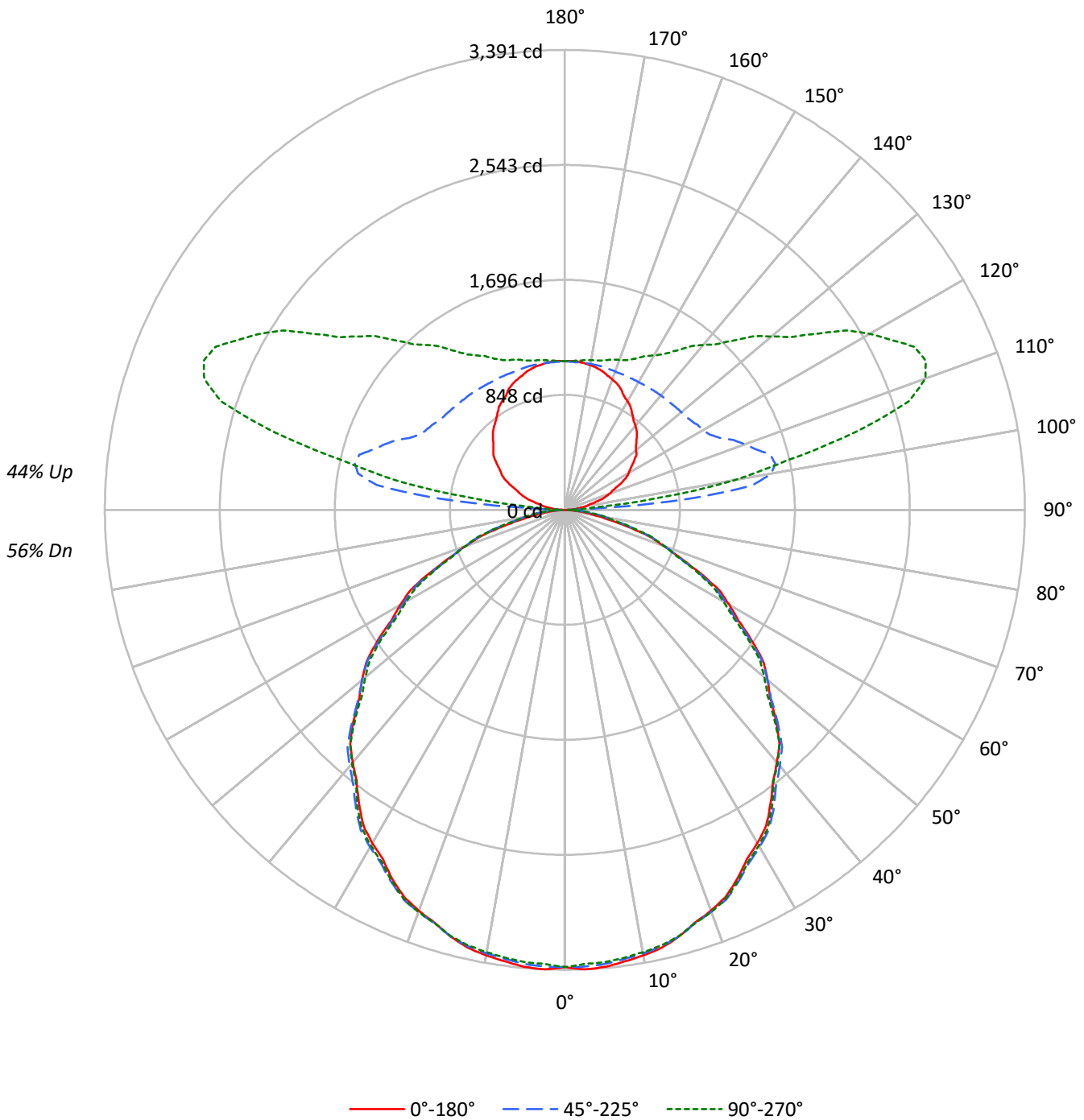
Lumens per Lamp: N/A
Luminaire Lumens: 16350.2 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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				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	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°	10367	10367	10367
5°	10446	10378	10340
10°	10420	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10274	10242
30°	10076	10198	10153
35°	9926	10078	10008
40°	9762	9900	9799
45°	9584	9652	9503
50°	9334	9334	9185
55°	9038	8920	8786
60°	8601	8428	8294
65°	7950	7791	7723
70°	6961	7017	6988
75°	5600	6194	6231
80°	3980	5251	5308
85°	2424	4407	4407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.0	2.0
10°-20°	915.6	5.6
20°-30°	1386.5	8.5
30°-40°	1662.2	10.2
40°-50°	1694.9	10.4
50°-60°	1479.5	9.0
60°-70°	1059.2	6.5
70°-80°	545.6	3.3
80°-90°	140.7	0.9
90°-100°	517.4	3.2
100°-110°	1423.6	8.7
110°-120°	1469.4	9.0
120°-130°	1177.3	7.2
130°-140°	924.7	5.7
140°-150°	708.6	4.3
150°-160°	509.5	3.1
160°-170°	311.5	1.9
170°-180°	105.0	0.6
0°-30°	2621.1	16.0
0°-40°	4283.3	26.2
0°-60°	7457.7	45.6
0°-90°	9203.2	56.3
90°-120°	3410.4	20.9
90°-150°	6220.9	38.0
90°-180°	7147.0	43.7
0°-180°	16350.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3371	3371	3371	3371	3371	
5°	3384	3350	3362	3352	3349	321
15°	3256	3228	3256	3256	3252	918
25°	3006	2985	3028	3018	3018	1383
35°	2644	2638	2684	2666	2666	1653
45°	2204	2198	2219	2191	2185	1696
55°	1686	1664	1664	1639	1639	1503
65°	1092	1068	1071	1061	1061	1080
75°	471	493	521	524	524	509
85°	69	105	125	128	125	93
90°	2	9	16	21	21	8
95°	77	282	915	391	250	81
105°	254	391	1569	2389	2229	268
115°	450	549	1258	2505	2843	445
125°	621	708	1141	1931	2262	554
135°	749	831	1109	1562	1767	578
145°	866	925	1092	1330	1433	543
155°	980	1012	1085	1196	1230	450
165°	1060	1073	1090	1135	1141	299
175°	1097	1099	1092	1106	1104	104
180°	1097	1097	1097	1097	1097	

TEST NUMBER: P562757

CATALOG NUMBER: SQ4-PC3-075U-100D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3371.1	3371.1	3371.1	3371.1	3371.1
2.5°	3391.1	3361.8	3371.1	3363.4	3351.1
5°	3383.6	3350.0	3361.8	3352.3	3349.3
7.5°	3359.3	3325.7	3341.2	3334.8	3331.8
10°	3336.8	3303.2	3321.2	3314.9	3311.8
12.5°	3306.8	3275.7	3296.2	3290.0	3289.3
15°	3255.6	3228.2	3255.6	3255.6	3252.5
17.5°	3191.3	3166.3	3195.7	3197.5	3195.7
20°	3146.4	3118.9	3155.7	3152.7	3155.7
22.5°	3091.4	3068.9	3108.3	3100.3	3103.3
25°	3005.9	2984.6	3027.8	3018.4	3018.4
27.5°	2904.8	2889.5	2936.6	2926.6	2926.6
30°	2837.4	2822.1	2871.7	2859.2	2859.2
32.5°	2762.4	2752.1	2799.3	2784.3	2784.3
35°	2643.8	2637.7	2684.4	2665.7	2665.7
37.5°	2521.5	2516.0	2558.3	2535.7	2528.3
40°	2431.6	2428.5	2465.9	2440.9	2440.9
42.5°	2341.7	2338.6	2371.0	2341.1	2341.1
45°	2203.7	2197.6	2219.3	2191.1	2185.0
47.5°	2053.3	2047.2	2060.8	2030.1	2027.0
50°	1950.9	1944.8	1950.9	1922.7	1919.7
52.5°	1846.0	1835.0	1836.0	1807.9	1807.3
55°	1685.6	1664.2	1663.7	1638.7	1638.7
57.5°	1515.8	1487.7	1490.2	1468.9	1465.8
60°	1398.4	1367.9	1370.3	1351.5	1348.4
62.5°	1283.5	1248.1	1255.4	1234.2	1233.6
65°	1092.5	1068.1	1070.6	1061.3	1061.3
67.5°	909.0	886.4	902.7	895.2	894.6
70°	774.1	758.8	780.4	780.3	777.2
72.5°	649.3	648.6	675.5	675.5	677.3
75°	471.3	492.7	521.3	524.4	524.4
77.5°	314.6	352.5	383.9	385.2	384.6
80°	224.7	267.5	296.5	302.7	299.7
82.5°	152.3	197.5	221.6	227.8	224.7
85°	68.7	105.3	124.9	127.9	124.9
87.5°	20.4	43.8	53.2	54.0	49.1
90°	2.3	9.2	16.3	21.0	21.0
92.5°	32.2	137.7	238.6	91.6	75.2
95°	77.0	282.4	915.0	391.3	249.8
97.5°	125.6	313.2	1396.3	1075.9	759.1
100°	161.1	332.2	1547.6	1562.0	1274.5
102.5°	194.7	354.9	1586.8	1937.9	1674.1
105°	254.4	391.4	1568.6	2388.9	2229.1
107.5°	311.4	436.5	1479.4	2609.8	2657.2
110°	352.5	466.6	1412.2	2664.7	2829.0



TEST NUMBER: P562757

CATALOG NUMBER: SQ4-PC3-075U-100D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	389.8	500.3	1345.0	2629.3	2879.5
115°	450.5	548.6	1258.1	2505.3	2843.0
117.5°	508.4	598.8	1203.0	2331.2	2713.3
120°	543.9	630.6	1178.8	2200.8	2595.6
122.5°	575.6	662.3	1162.0	2086.4	2461.2
125°	620.9	707.6	1141.4	1930.9	2261.8
127.5°	663.8	746.5	1127.9	1801.1	2091.4
130°	686.3	770.7	1120.4	1724.0	1988.7
132.5°	712.4	796.8	1114.8	1656.2	1895.4
135°	749.3	831.4	1108.7	1561.6	1767.0
137.5°	783.8	860.0	1103.6	1485.1	1654.5
140°	810.0	880.7	1101.7	1434.3	1587.2
142.5°	832.4	897.6	1098.0	1389.0	1520.0
145°	866.0	925.3	1092.4	1330.5	1433.2
147.5°	901.9	953.1	1089.6	1278.7	1360.8
150°	924.3	970.0	1087.7	1250.2	1314.1
152.5°	944.9	986.9	1085.9	1225.7	1278.7
155°	980.4	1012.3	1085.4	1195.9	1230.1
157.5°	1006.0	1032.1	1085.4	1171.4	1195.1
160°	1024.7	1045.2	1085.4	1158.2	1176.4
162.5°	1039.6	1056.5	1087.3	1146.9	1161.5
165°	1059.7	1073.4	1090.1	1134.6	1141.4
167.5°	1073.7	1084.2	1092.4	1124.2	1126.0
170°	1083.1	1089.9	1092.4	1120.4	1120.4
172.5°	1090.5	1093.7	1092.4	1114.8	1112.9
175°	1097.1	1099.3	1092.4	1106.4	1104.1
177.5°	1098.9	1098.9	1091.5	1102.6	1098.9
180°	1097.1	1097.1	1097.1	1097.1	1097.1

(END OF REPORT)