

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: P562699

Luminaire Tested: **SQ4-PC3-075U-050D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562699
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-050D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

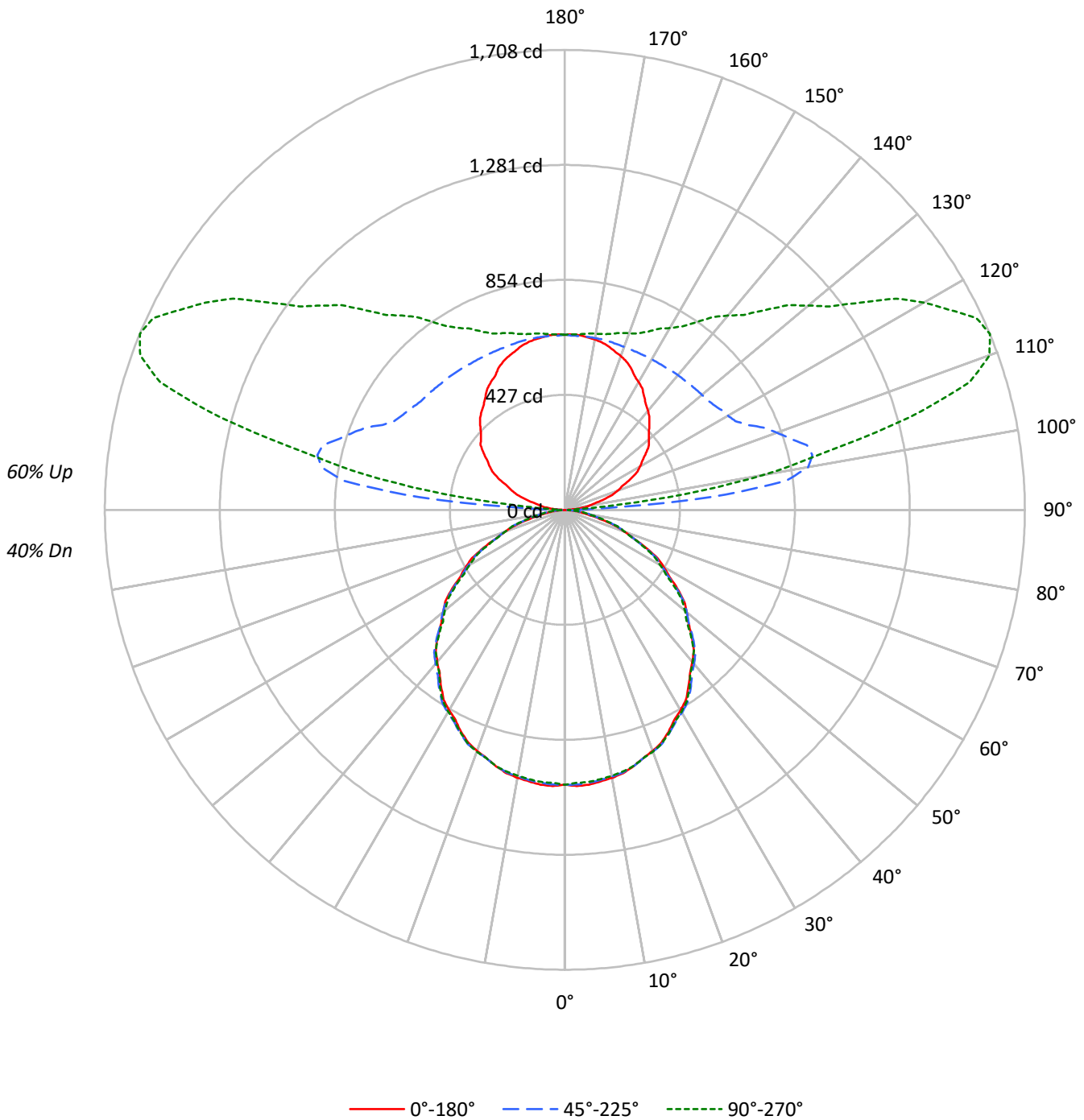
Lumens per Lamp: N/A
Luminaire Lumens: 7026.7 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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



TEST NUMBER: P562699
CATALOG NUMBER: SQ4-PC3-075U-050D-830-1D-UNV-STD-W-6

Luminous Intensity Polar Plot





TEST NUMBER: P562699

CATALOG NUMBER: SQ4-PC3-075U-050D-830-1D-UNV-STD-W-6

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	50	30	10	0	
RCR																						
0	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40				
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	40	39	34				
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28				
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24				
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20				
5	66	55	47	41	60	50	43	38	42	36	32	33	30	27	26	23	21	18				
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	15				
7	56	44	37	31	51	41	34	29	34	29	25	27	23	21	21	19	16	14				
8	52	40	33	27	47	37	30	25	31	26	22	25	21	18	20	17	15	12				
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11				
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6279	6279	6279
5°	6327	6286	6263
10°	6311	6282	6264
15°	6279	6279	6272
20°	6237	6256	6256
25°	6178	6223	6204
30°	6103	6177	6150
35°	6012	6105	6062
40°	5913	5996	5935
45°	5805	5846	5756
50°	5653	5653	5563
55°	5474	5403	5322
60°	5210	5105	5024
65°	4816	4718	4678
70°	4215	4250	4233
75°	3391	3752	3774
80°	2412	3181	3213
85°	1468	2668	2668



TEST NUMBER: P562699

CATALOG NUMBER: SQ4-PC3-075U-050D-830-1D-UNV-STD-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	1.4
10°-20°	277.3	3.9
20°-30°	419.9	6.0
30°-40°	503.4	7.2
40°-50°	513.3	7.3
50°-60°	448.1	6.4
60°-70°	320.8	4.6
70°-80°	165.2	2.4
80°-90°	43.4	0.6
90°-100°	306.9	4.4
100°-110°	844.3	12.0
110°-120°	871.5	12.4
120°-130°	698.2	9.9
130°-140°	548.4	7.8
140°-150°	420.3	6.0
150°-160°	302.2	4.3
160°-170°	184.8	2.6
170°-180°	62.3	0.9
0°-30°	793.8	11.3
0°-40°	1297.2	18.5
0°-60°	2258.5	32.1
0°-90°	2788.0	39.7
90°-120°	2022.6	28.8
90°-150°	3689.5	52.5
90°-180°	4239.0	60.3
0°-180°	7026.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1025	1014	1018	1015	1014	97
15°	986	978	986	986	985	278
25°	910	904	917	914	914	419
35°	801	799	813	807	807	501
45°	667	666	672	664	662	514
55°	510	504	504	496	496	455
65°	331	324	324	321	321	327
75°	143	149	158	159	159	154
85°	21	32	38	39	38	28
90°	1	5	10	12	12	4
95°	46	168	543	232	148	48
105°	151	232	930	1417	1322	159
115°	267	325	746	1486	1686	264
125°	368	420	677	1145	1341	328
135°	444	493	658	926	1048	343
145°	514	549	648	789	850	322
155°	581	600	644	709	730	267
165°	628	637	646	673	677	177
175°	651	652	648	656	655	62
180°	651	651	651	651	651	

TEST NUMBER: P562699

CATALOG NUMBER: SQ4-PC3-075U-050D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.9	1020.9	1020.9	1020.9	1020.9
2.5°	1027.0	1018.1	1020.9	1018.6	1014.9
5°	1024.7	1014.5	1018.1	1015.2	1014.3
7.5°	1017.3	1007.2	1011.9	1009.9	1009.0
10°	1010.5	1000.4	1005.8	1003.9	1003.0
12.5°	1001.5	992.0	998.2	996.3	996.2
15°	986.0	977.6	986.0	985.9	985.0
17.5°	966.5	958.9	967.8	968.4	967.8
20°	952.9	944.6	955.7	954.8	955.7
22.5°	936.2	929.4	941.3	938.9	939.8
25°	910.3	903.9	916.9	914.1	914.1
27.5°	879.7	875.1	889.3	886.3	886.3
30°	859.3	854.7	869.7	865.9	865.9
32.5°	836.6	833.5	847.8	843.2	843.2
35°	800.7	798.8	813.0	807.3	807.3
37.5°	763.6	762.0	774.8	767.9	765.7
40°	736.4	735.5	746.8	739.2	739.2
42.5°	709.2	708.2	718.1	709.0	709.0
45°	667.4	665.5	672.1	663.6	661.7
47.5°	621.8	620.0	624.1	614.8	613.9
50°	590.8	589.0	590.8	582.3	581.4
52.5°	559.1	555.7	556.0	547.5	547.3
55°	510.5	504.0	503.8	496.3	496.3
57.5°	459.0	450.5	451.3	444.8	443.9
60°	423.5	414.3	415.0	409.3	408.4
62.5°	388.7	378.0	380.2	373.8	373.6
65°	330.9	323.5	324.2	321.4	321.4
67.5°	275.3	268.4	273.4	271.1	270.9
70°	234.4	229.8	236.3	236.3	235.4
72.5°	196.6	196.4	204.6	204.6	205.1
75°	142.7	149.2	157.9	158.8	158.8
77.5°	95.3	106.7	116.3	116.6	116.5
80°	68.1	81.0	89.8	91.7	90.7
82.5°	46.1	59.8	67.1	69.0	68.1
85°	20.8	31.9	37.8	38.7	37.8
87.5°	6.3	13.8	17.1	17.6	16.1
90°	1.4	5.4	9.7	12.5	12.5
92.5°	19.1	81.6	141.5	54.3	44.6
95°	45.7	167.5	542.7	232.0	148.1
97.5°	74.5	185.7	828.1	638.1	450.2
100°	95.5	197.0	917.8	926.4	755.9
102.5°	115.5	210.5	941.1	1149.3	992.9
105°	150.9	232.1	930.3	1416.8	1322.1
107.5°	184.7	258.9	877.4	1547.8	1576.0
110°	209.0	276.7	837.5	1580.4	1677.8



TEST NUMBER: P562699

CATALOG NUMBER: SQ4-PC3-075U-050D-830-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.2	296.7	797.7	1559.4	1707.7
115°	267.2	325.4	746.2	1485.8	1686.1
117.5°	301.5	355.1	713.5	1382.6	1609.2
120°	322.6	374.0	699.1	1305.2	1539.4
122.5°	341.4	392.8	689.1	1237.4	1459.7
125°	368.2	419.7	677.0	1145.2	1341.4
127.5°	393.7	442.7	668.9	1068.2	1240.4
130°	407.0	457.1	664.5	1022.5	1179.5
132.5°	422.5	472.6	661.2	982.2	1124.1
135°	444.4	493.1	657.6	926.1	1048.0
137.5°	464.9	510.1	654.5	880.8	981.2
140°	480.4	522.3	653.4	850.7	941.4
142.5°	493.7	532.4	651.2	823.8	901.5
145°	513.6	548.8	647.9	789.1	850.0
147.5°	534.9	565.2	646.2	758.4	807.1
150°	548.2	575.3	645.1	741.5	779.4
152.5°	560.4	585.3	644.0	726.9	758.4
155°	581.4	600.4	643.7	709.3	729.6
157.5°	596.7	612.1	643.7	694.7	708.8
160°	607.7	619.9	643.7	686.9	697.7
162.5°	616.6	626.6	644.8	680.2	688.9
165°	628.5	636.6	646.5	672.9	677.0
167.5°	636.8	643.0	647.9	666.7	667.8
170°	642.3	646.4	647.9	664.5	664.5
172.5°	646.8	648.7	647.9	661.1	660.1
175°	650.6	652.0	647.9	656.2	654.8
177.5°	651.8	651.8	647.3	653.9	651.8
180°	650.6	650.6	650.6	650.6	650.6

(END OF REPORT)