

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: P562927

Luminaire Tested: **SQ4-PC3-100U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562927
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

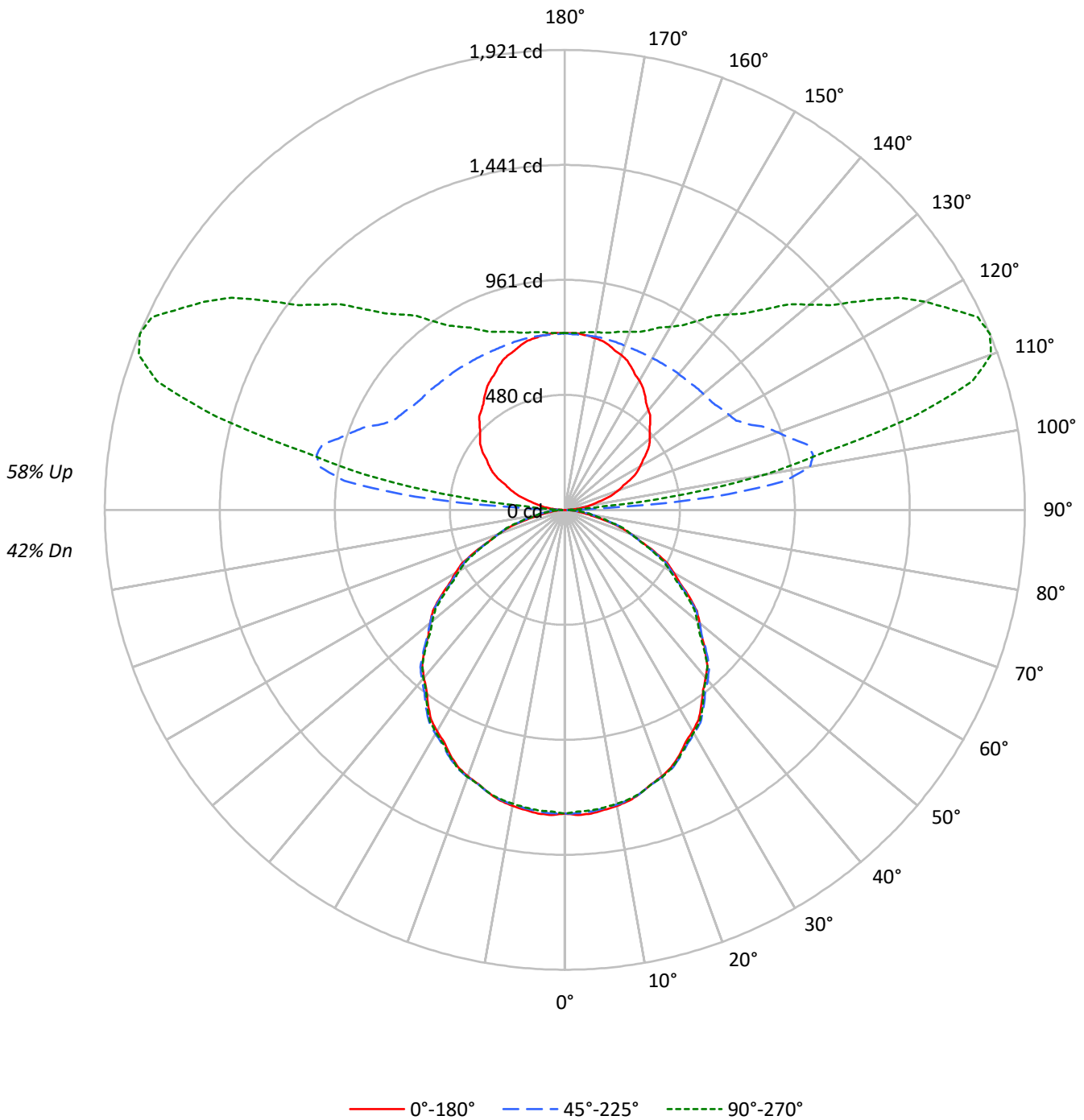
Lumens per Lamp: N/A
Luminaire Lumens: 8257.7 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	87	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	27	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	30	27	27	24	22	19
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7782
10°	7843	7806	7784
15°	7801	7801	7794
20°	7750	7773	7773
25°	7676	7733	7708
30°	7583	7675	7641
35°	7470	7585	7532
40°	7347	7450	7375
45°	7214	7264	7152
50°	7025	7025	6913
55°	6802	6714	6613
60°	6473	6344	6242
65°	5983	5864	5813
70°	5239	5282	5260
75°	4216	4663	4689
80°	2997	3953	3995
85°	1821	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	1.5
10°-20°	344.5	4.2
20°-30°	521.7	6.3
30°-40°	625.5	7.6
40°-50°	637.8	7.7
50°-60°	556.8	6.7
60°-70°	398.6	4.8
70°-80°	205.3	2.5
80°-90°	53.4	0.6
90°-100°	345.5	4.2
100°-110°	953.9	11.6
110°-120°	983.8	11.9
120°-130°	790.5	9.6
130°-140°	621.3	7.5
140°-150°	476.5	5.8
150°-160°	342.5	4.1
160°-170°	209.4	2.5
170°-180°	70.6	0.9
0°-30°	986.3	11.9
0°-40°	1611.8	19.5
0°-60°	2806.4	34.0
0°-90°	3463.7	41.9
90°-120°	2283.2	27.6
90°-150°	4171.5	50.5
90°-180°	4794.0	58.1
0°-180°	8257.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1273	1261	1265	1262	1260	121
15°	1225	1215	1225	1225	1224	345
25°	1131	1123	1139	1136	1136	521
35°	995	993	1010	1003	1003	622
45°	829	827	835	824	822	638
55°	634	626	626	617	617	565
65°	411	402	403	399	399	407
75°	177	185	196	197	197	192
85°	26	40	47	48	47	35
90°	2	5	9	11	12	5
95°	51	187	627	258	168	54
105°	170	262	1050	1602	1509	181
115°	305	368	845	1673	1903	299
125°	418	476	766	1297	1522	372
135°	503	557	745	1050	1184	389
145°	583	624	736	894	962	365
155°	658	680	730	802	828	303
165°	712	721	733	762	767	201
175°	738	739	734	745	742	70
180°	738	738	738	738	738	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1268.6	1268.6	1268.6	1268.6	1268.6
2.5°	1276.1	1265.1	1268.6	1265.7	1261.1
5°	1273.3	1260.6	1265.1	1261.5	1260.4
7.5°	1264.1	1251.5	1257.3	1254.9	1253.8
10°	1255.7	1243.0	1249.8	1247.4	1246.3
12.5°	1244.4	1232.7	1240.4	1238.0	1237.8
15°	1225.1	1214.8	1225.1	1225.1	1223.9
17.5°	1200.9	1191.5	1202.6	1203.3	1202.6
20°	1184.0	1173.7	1187.5	1186.4	1187.5
22.5°	1163.3	1154.8	1169.7	1166.6	1167.8
25°	1131.1	1123.1	1139.4	1135.8	1135.8
27.5°	1093.1	1087.3	1105.1	1101.3	1101.3
30°	1067.7	1062.0	1080.6	1075.9	1075.9
32.5°	1039.5	1035.6	1053.4	1047.8	1047.8
35°	994.9	992.6	1010.2	1003.1	1003.1
37.5°	948.8	946.8	962.7	954.2	951.4
40°	915.0	913.9	927.9	918.5	918.5
42.5°	881.2	880.0	892.2	881.0	881.0
45°	829.3	827.0	835.1	824.5	822.2
47.5°	772.7	770.4	775.5	763.9	762.8
50°	734.1	731.8	734.1	723.5	722.4
52.5°	694.7	690.5	690.9	680.3	680.1
55°	634.3	626.2	626.1	616.7	616.7
57.5°	570.4	559.8	560.8	552.7	551.6
60°	526.2	514.7	515.7	508.6	507.4
62.5°	483.0	469.7	472.4	464.4	464.2
65°	411.1	401.9	402.9	399.4	399.4
67.5°	342.0	333.5	339.7	336.9	336.6
70°	291.3	285.6	293.7	293.6	292.5
72.5°	244.3	244.1	254.2	254.2	254.9
75°	177.4	185.4	196.2	197.3	197.3
77.5°	118.4	132.6	144.5	144.9	144.7
80°	84.6	100.7	111.6	113.9	112.8
82.5°	57.3	74.3	83.4	85.7	84.6
85°	25.8	39.6	47.0	48.1	47.0
87.5°	8.0	16.7	20.7	20.9	19.3
90°	2.4	4.7	9.4	10.7	11.8
92.5°	21.2	88.2	157.7	57.6	44.9
95°	50.8	187.0	626.9	257.7	167.6
97.5°	84.1	209.4	928.6	714.9	517.8
100°	108.6	222.9	1040.0	1047.4	851.2
102.5°	132.2	238.2	1061.8	1294.1	1108.0
105°	170.0	262.3	1049.5	1602.2	1508.7
107.5°	210.1	292.3	990.9	1750.8	1784.9
110°	238.5	312.3	945.6	1782.7	1893.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.0	335.1	903.1	1757.5	1920.9
115°	304.6	368.1	845.3	1673.3	1903.0
117.5°	340.0	403.2	807.2	1554.8	1816.1
120°	363.6	425.9	792.1	1474.6	1737.7
122.5°	386.3	445.8	779.9	1399.6	1649.0
125°	417.9	475.6	766.2	1296.6	1521.7
127.5°	444.8	502.5	758.1	1209.5	1403.6
130°	462.8	520.5	754.4	1156.2	1332.8
132.5°	479.8	534.7	750.6	1111.4	1271.4
135°	502.9	557.2	744.9	1050.2	1184.1
137.5°	528.9	578.3	742.1	998.7	1113.0
140°	543.0	591.5	740.2	964.4	1064.8
142.5°	559.1	603.9	738.3	933.9	1022.3
145°	583.2	623.6	735.5	894.0	962.1
147.5°	606.3	641.6	732.9	860.4	913.3
150°	623.3	652.2	731.9	840.3	883.0
152.5°	636.5	663.5	731.0	823.2	858.5
155°	657.6	679.5	729.6	802.2	827.5
157.5°	676.9	693.8	729.8	786.9	804.2
160°	688.2	703.2	730.7	778.3	790.9
162.5°	697.7	710.8	731.7	770.6	780.6
165°	711.9	721.1	733.1	761.6	767.3
167.5°	722.7	728.3	734.3	756.0	757.9
170°	728.4	733.0	734.3	753.2	753.2
172.5°	733.1	735.9	734.3	749.4	748.5
175°	737.8	739.0	734.3	744.9	742.5
177.5°	739.7	738.8	734.0	740.6	738.8
180°	737.8	737.8	737.8	737.8	737.8

(END OF REPORT)