

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: P561535

Luminaire Tested: **SQ4-PC3-075U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561535
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

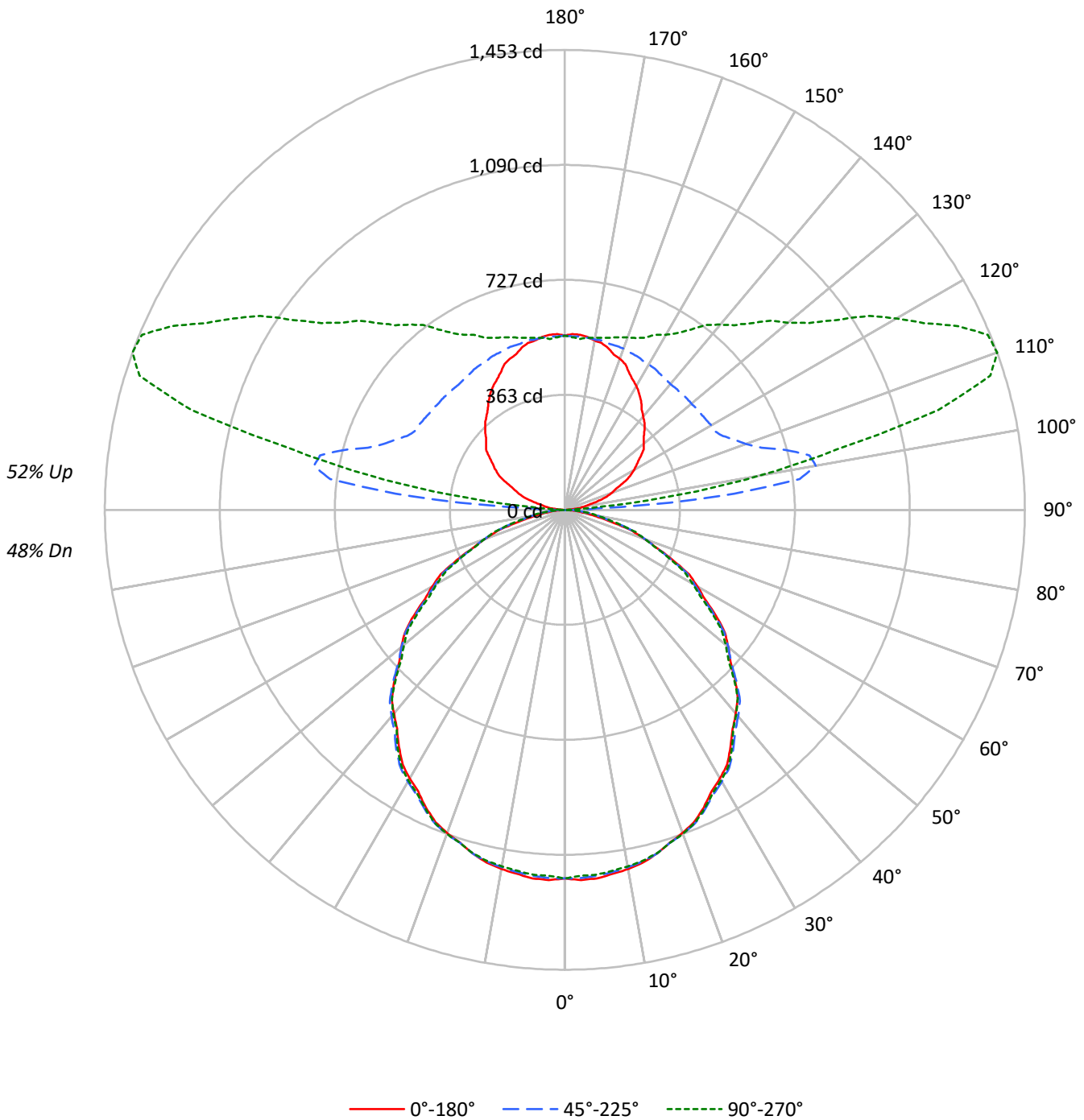
Lumens per Lamp: N/A
Luminaire Lumens: 6595.1 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.4
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	90	86	83	80	72	70	68	60	58	57	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	41	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	34	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10740	10740	10740
5°	10821	10751	10711
10°	10794	10744	10714
15°	10738	10738	10727
20°	10668	10699	10699
25°	10566	10643	10611
30°	10437	10564	10518
35°	10282	10440	10368
40°	10112	10255	10152
45°	9928	9999	9845
50°	9668	9668	9515
55°	9362	9241	9103
60°	8911	8732	8591
65°	8235	8071	8001
70°	7211	7270	7240
75°	5803	6417	6456
80°	4123	5441	5499
85°	2509	4563	4563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	1.7
10°-20°	316.1	4.8
20°-30°	478.8	7.3
30°-40°	574.0	8.7
40°-50°	585.2	8.9
50°-60°	510.9	7.7
60°-70°	365.8	5.5
70°-80°	188.4	2.9
80°-90°	47.6	0.7
90°-100°	250.8	3.8
100°-110°	713.5	10.8
110°-120°	683.6	10.4
120°-130°	541.0	8.2
130°-140°	434.3	6.6
140°-150°	340.0	5.2
150°-160°	248.8	3.8
160°-170°	154.1	2.3
170°-180°	52.3	0.8
0°-30°	905.1	13.7
0°-40°	1479.0	22.4
0°-60°	2575.2	39.0
0°-90°	3177.0	48.2
90°-120°	1647.8	25.0
90°-150°	2963.1	44.9
90°-180°	3418.0	51.8
0°-180°	6595.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1164	1164	1164	1164	1164	
5°	1168	1157	1161	1158	1156	111
15°	1124	1115	1124	1124	1123	317
25°	1038	1031	1046	1042	1042	478
35°	913	911	927	920	920	571
45°	761	759	766	757	754	586
55°	582	575	574	566	566	519
65°	377	369	370	366	366	373
75°	163	170	180	181	181	176
85°	24	36	43	44	43	32
90°	0	0	0	0	0	2
95°	27	108	485	168	104	31
105°	111	168	727	1284	1221	117
115°	206	249	551	1168	1372	203
125°	291	322	526	873	1044	260
135°	356	385	520	738	834	274
145°	420	441	524	638	696	262
155°	479	490	537	577	600	221
165°	529	531	543	555	563	149
175°	554	551	549	546	542	53
180°	550	550	550	550	550	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.1	1164.1	1164.1	1164.1	1164.1
2.5°	1171.0	1160.8	1164.1	1161.4	1157.2
5°	1168.4	1156.8	1160.8	1157.6	1156.5
7.5°	1160.0	1148.4	1153.7	1151.5	1150.5
10°	1152.2	1140.6	1146.8	1144.6	1143.6
12.5°	1141.9	1131.1	1138.2	1136.0	1135.8
15°	1124.2	1114.7	1124.2	1124.2	1123.1
17.5°	1102.0	1093.3	1103.5	1104.1	1103.5
20°	1086.5	1077.0	1089.7	1088.6	1089.7
22.5°	1067.5	1059.7	1073.3	1070.5	1071.6
25°	1037.9	1030.6	1045.5	1042.3	1042.3
27.5°	1003.0	997.8	1014.0	1010.6	1010.6
30°	979.7	974.5	991.6	987.3	987.3
32.5°	953.9	950.3	966.6	961.4	961.4
35°	912.9	910.8	926.9	920.5	920.5
37.5°	870.7	868.8	883.4	875.6	873.0
40°	839.6	838.6	851.5	842.9	842.9
42.5°	808.6	807.5	818.7	808.4	808.4
45°	760.9	758.8	766.3	756.6	754.5
47.5°	709.0	706.9	711.6	701.0	699.9
50°	673.6	671.5	673.6	663.9	662.9
52.5°	637.4	633.6	634.0	624.3	624.1
55°	582.0	574.7	574.5	565.9	565.9
57.5°	523.4	513.7	514.6	507.2	506.1
60°	482.9	472.3	473.2	466.7	465.6
62.5°	443.2	431.0	433.5	426.2	426.0
65°	377.2	368.8	369.7	366.5	366.5
67.5°	313.9	306.1	311.7	309.1	308.9
70°	267.3	262.0	269.5	269.4	268.4
72.5°	224.2	224.0	233.2	233.3	233.9
75°	162.8	170.1	180.0	181.1	181.1
77.5°	108.6	121.7	132.6	133.0	132.8
80°	77.6	92.4	102.4	104.5	103.5
82.5°	52.6	68.2	76.5	78.7	77.6
85°	23.7	36.4	43.1	44.2	43.1
87.5°	6.9	14.5	17.2	17.2	15.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.4	44.4	102.9	30.0	22.6
95°	27.2	108.0	485.4	168.0	103.6
97.5°	50.0	126.5	747.6	535.0	366.6
100°	65.9	137.5	804.5	814.9	627.7
102.5°	83.5	149.4	792.0	1043.1	879.6
105°	110.9	168.2	727.1	1284.3	1220.9
107.5°	138.7	190.1	651.3	1352.3	1408.8
110°	158.0	206.0	607.8	1326.3	1453.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	222.0	578.5	1264.7	1445.6
115°	206.1	249.1	551.3	1168.0	1371.5
117.5°	232.2	272.6	535.2	1062.2	1277.8
120°	253.2	286.9	533.5	1001.7	1208.3
122.5°	269.9	303.7	529.4	948.6	1140.5
125°	290.8	322.5	526.2	873.2	1044.1
127.5°	313.6	343.3	524.5	828.2	969.0
130°	325.4	355.0	522.0	796.8	919.6
132.5°	337.9	366.8	522.0	772.3	885.3
135°	355.7	385.4	519.9	737.6	833.8
137.5°	372.4	401.3	519.7	708.3	791.3
140°	385.0	414.7	518.9	683.9	763.7
142.5°	399.2	424.0	521.4	664.5	736.1
145°	419.5	441.0	524.1	638.4	695.7
147.5°	436.9	457.7	528.7	612.1	661.6
150°	451.9	466.3	530.4	603.4	638.2
152.5°	463.7	478.8	532.1	591.6	623.9
155°	479.1	490.4	536.7	577.0	600.5
157.5°	498.4	505.1	537.7	570.3	587.1
160°	508.4	513.6	541.9	565.3	579.6
162.5°	514.3	520.2	542.8	561.0	572.0
165°	529.4	531.4	543.0	554.7	562.8
167.5°	539.6	537.8	547.8	553.1	556.4
170°	543.0	541.9	546.1	547.2	551.3
172.5°	550.5	547.0	548.6	545.5	548.8
175°	554.5	551.4	549.2	546.0	541.9
177.5°	556.1	551.2	548.6	545.3	546.1
180°	550.3	550.3	550.3	550.3	550.3

(END OF REPORT)