

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: P561743

Luminaire Tested: **SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561743
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-PC3-150U-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 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

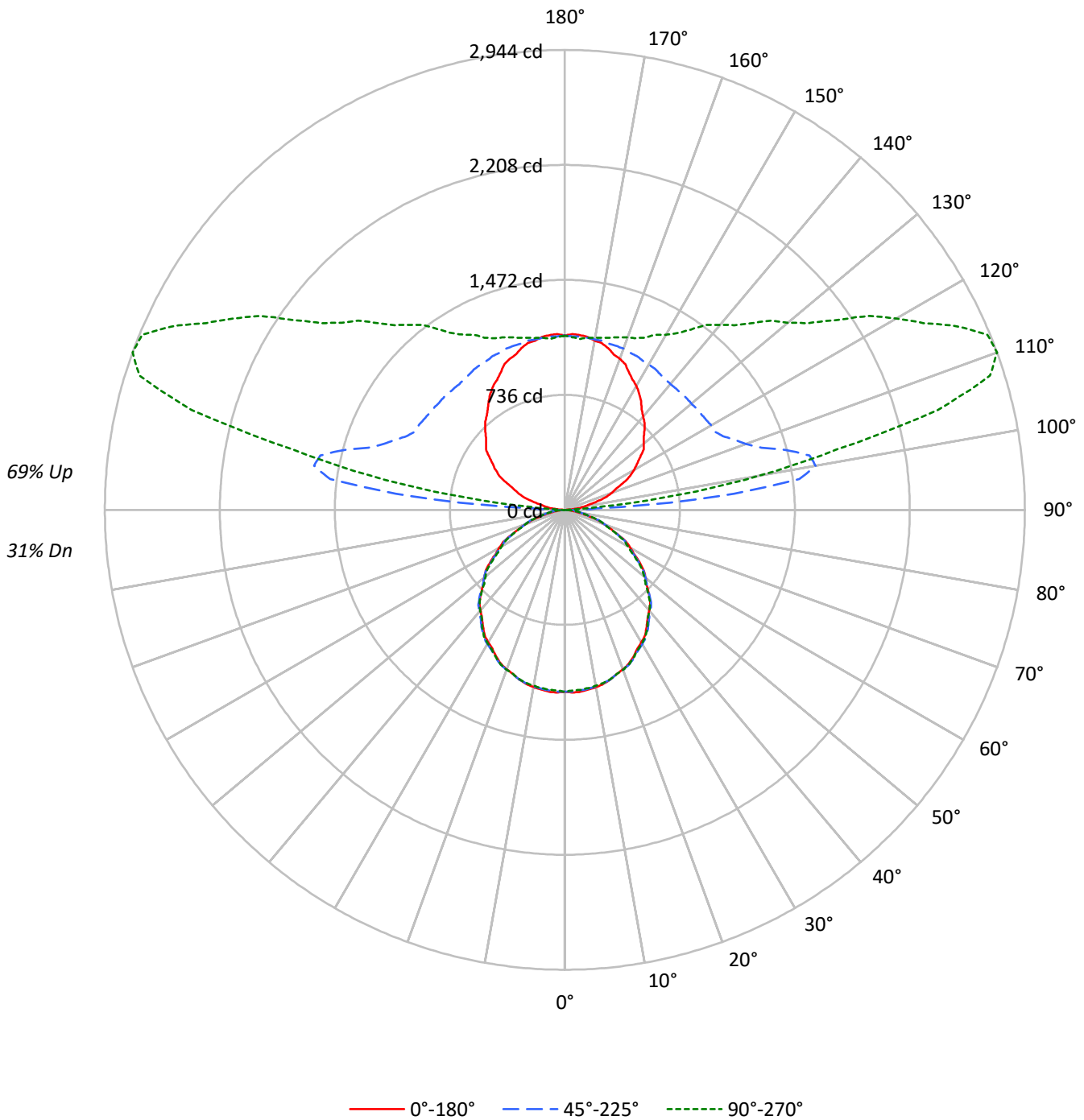
Lumens per Lamp: N/A
Luminaire Lumens: 10101.0 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 82.9
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	11
8	51	39	32	26	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	14	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	8

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	1.1
10°-20°	316.1	3.1
20°-30°	478.8	4.7
30°-40°	574.0	5.7
40°-50°	585.2	5.8
50°-60°	510.9	5.1
60°-70°	365.8	3.6
70°-80°	188.4	1.9
80°-90°	47.6	0.5
90°-100°	507.9	5.0
100°-110°	1445.2	14.3
110°-120°	1384.7	13.7
120°-130°	1095.9	10.8
130°-140°	879.7	8.7
140°-150°	688.7	6.8
150°-160°	503.9	5.0
160°-170°	312.1	3.1
170°-180°	105.9	1.0
0°-30°	905.1	9.0
0°-40°	1479.0	14.6
0°-60°	2575.2	25.5
0°-90°	3177.0	31.5
90°-120°	3337.9	33.0
90°-150°	6002.1	59.4
90°-180°	6924.0	68.5
0°-180°	10101.0	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	3
95°	55	219	983	340	210	63
105°	225	341	1473	2602	2473	238
115°	418	504	1117	2366	2778	411
125°	589	653	1066	1769	2115	527
135°	720	781	1053	1494	1689	556
145°	850	893	1062	1293	1409	531
155°	971	993	1087	1169	1216	449
165°	1072	1076	1100	1124	1140	302
175°	1123	1117	1113	1106	1098	106
180°	1115	1115	1115	1115	1115	

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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°	17.0	89.9	208.5	60.7	45.8
95°	55.1	218.8	983.3	340.3	209.8
97.5°	101.3	256.3	1514.4	1083.6	742.6
100°	133.5	278.6	1629.6	1650.7	1271.5
102.5°	169.1	302.6	1604.2	2112.9	1781.8
105°	224.6	340.7	1472.8	2601.5	2473.1
107.5°	281.0	385.0	1319.4	2739.3	2853.7
110°	320.0	417.4	1231.2	2686.6	2943.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.3	449.7	1171.9	2561.9	2928.3
115°	417.5	504.5	1116.8	2365.9	2778.2
117.5°	470.5	552.1	1084.2	2151.6	2588.3
120°	512.8	581.2	1080.8	2029.1	2447.6
122.5°	546.7	615.1	1072.3	1921.6	2310.3
125°	589.1	653.4	1065.9	1768.9	2114.9
127.5°	635.3	695.4	1062.5	1677.6	1962.8
130°	659.1	719.1	1057.5	1614.1	1862.7
132.5°	684.5	742.9	1057.5	1564.5	1793.2
135°	720.5	780.6	1053.2	1494.2	1689.0
137.5°	754.4	812.9	1052.8	1434.7	1602.9
140°	779.9	839.9	1051.1	1385.4	1547.0
142.5°	808.7	858.8	1056.2	1346.0	1491.0
145°	849.8	893.3	1061.7	1293.2	1409.2
147.5°	885.0	927.2	1071.0	1239.9	1340.2
150°	915.5	944.5	1074.4	1222.2	1292.7
152.5°	939.2	969.9	1077.8	1198.4	1263.9
155°	970.6	993.4	1087.1	1168.7	1216.4
157.5°	1009.6	1023.2	1089.2	1155.3	1189.3
160°	1029.9	1040.3	1097.7	1145.0	1174.0
162.5°	1041.8	1053.8	1099.4	1136.4	1158.8
165°	1072.3	1076.4	1099.8	1123.5	1140.1
167.5°	1093.1	1089.3	1109.6	1120.3	1127.0
170°	1099.8	1097.8	1106.2	1108.5	1116.8
172.5°	1115.1	1108.1	1111.3	1105.1	1111.7
175°	1123.2	1116.9	1112.6	1106.0	1097.7
177.5°	1126.5	1116.6	1111.3	1104.5	1106.2
180°	1114.7	1114.7	1114.7	1114.7	1114.7

(END OF REPORT)