

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: P561740

Luminaire Tested: **SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561740
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9655.2 lumens
Efficiency: N/A
Efficacy: 116.2 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

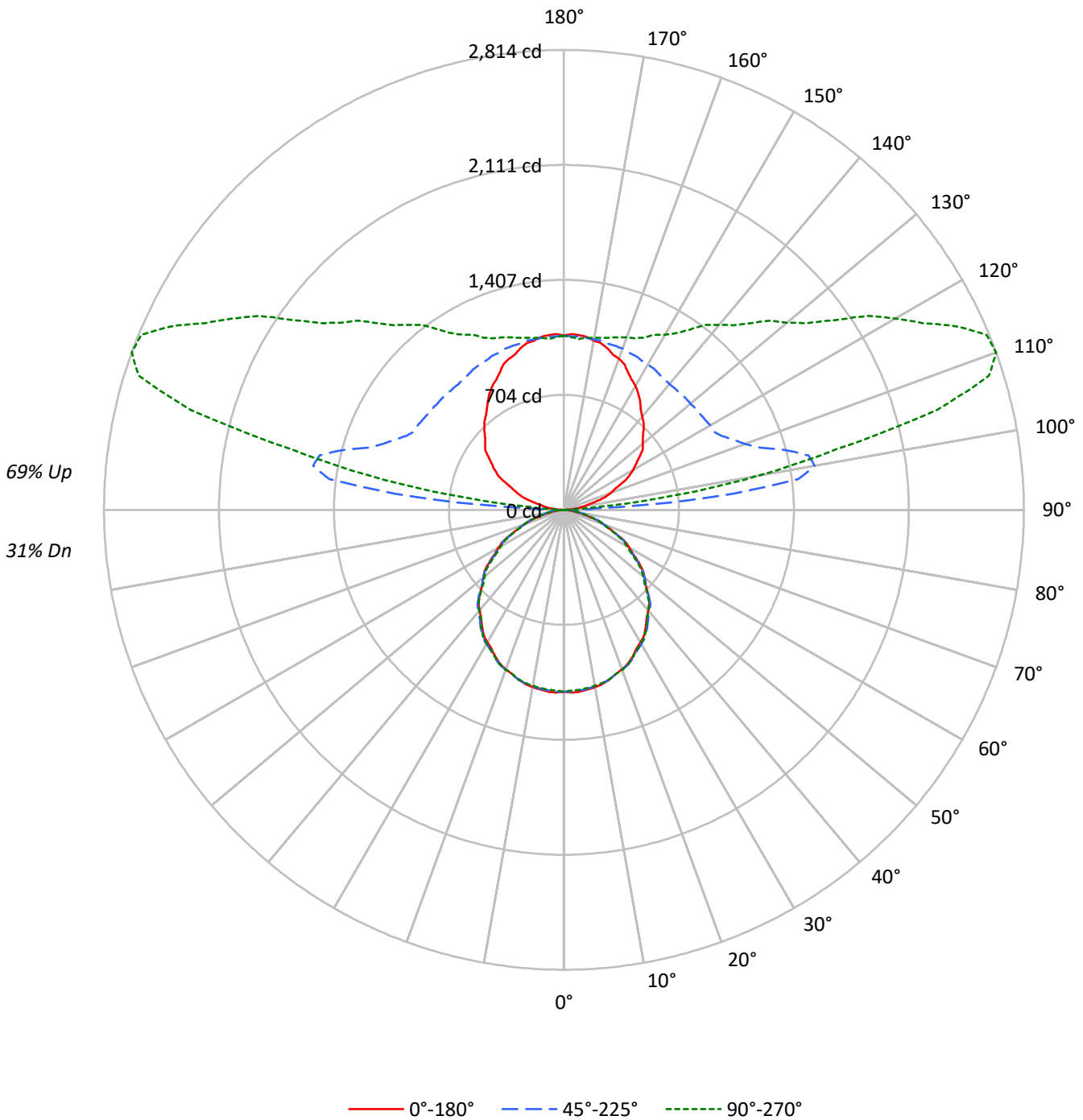
Input Watts (W): 83.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	10266	10266	10266
5°	10343	10276	10239
10°	10319	10270	10241
15°	10264	10264	10254
20°	10196	10227	10227
25°	10100	10174	10142
30°	9977	10097	10054
35°	9828	9979	9909
40°	9666	9803	9704
45°	9491	9558	9410
50°	9242	9242	9094
55°	8948	8832	8701
60°	8518	8346	8213
65°	7872	7715	7647
70°	6892	6949	6919
75°	5547	6135	6171
80°	3942	5202	5255
85°	2403	4361	4361



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.1
10°-20°	302.2	3.1
20°-30°	457.6	4.7
30°-40°	548.6	5.7
40°-50°	559.4	5.8
50°-60°	488.3	5.1
60°-70°	349.6	3.6
70°-80°	180.1	1.9
80°-90°	45.5	0.5
90°-100°	485.5	5.0
100°-110°	1381.5	14.3
110°-120°	1323.6	13.7
120°-130°	1047.6	10.8
130°-140°	840.8	8.7
140°-150°	658.3	6.8
150°-160°	481.7	5.0
160°-170°	298.3	3.1
170°-180°	101.2	1.0
0°-30°	865.1	9.0
0°-40°	1413.8	14.6
0°-60°	2461.5	25.5
0°-90°	3036.7	31.5
90°-120°	3190.6	33.0
90°-150°	5737.2	59.4
90°-180°	6618.0	68.5
0°-180°	9655.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1113	1113	1113	1113	1113	
5°	1117	1106	1110	1106	1106	106
15°	1075	1066	1075	1074	1074	303
25°	992	985	999	996	996	457
35°	873	871	886	880	880	546
45°	727	725	732	723	721	560
55°	556	549	549	541	541	496
65°	361	352	353	350	350	357
75°	156	163	172	173	173	168
85°	23	35	41	42	41	31
90°	0	0	0	0	0	3
95°	53	209	940	325	200	60
105°	215	326	1408	2487	2364	227
115°	399	482	1068	2262	2656	393
125°	563	624	1019	1691	2022	504
135°	689	746	1007	1428	1614	531
145°	812	854	1015	1236	1347	507
155°	928	950	1039	1117	1163	429
165°	1025	1029	1051	1074	1090	288
175°	1074	1068	1064	1057	1049	102
180°	1066	1066	1066	1066	1066	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1112.7	1112.7	1112.7	1112.7	1112.7
2.5°	1119.3	1109.6	1112.7	1110.1	1106.1
5°	1116.8	1105.7	1109.6	1106.5	1105.5
7.5°	1108.8	1097.7	1102.8	1100.7	1099.7
10°	1101.4	1090.3	1096.2	1094.1	1093.1
12.5°	1091.5	1081.2	1088.0	1085.9	1085.7
15°	1074.6	1065.5	1074.6	1074.5	1073.5
17.5°	1053.3	1045.1	1054.8	1055.4	1054.8
20°	1038.5	1029.4	1041.6	1040.6	1041.6
22.5°	1020.4	1012.9	1025.9	1023.3	1024.3
25°	992.1	985.1	999.4	996.3	996.3
27.5°	958.8	953.7	969.3	966.0	966.0
30°	936.5	931.5	947.8	943.7	943.7
32.5°	911.8	908.4	923.9	919.0	919.0
35°	872.6	870.6	886.0	879.8	879.8
37.5°	832.2	830.4	844.4	836.9	834.5
40°	802.6	801.6	813.9	805.7	805.7
42.5°	772.9	771.9	782.6	772.7	772.7
45°	727.4	725.4	732.5	723.2	721.2
47.5°	677.7	675.7	680.2	670.1	669.1
50°	643.9	641.9	643.9	634.6	633.6
52.5°	609.3	605.7	606.0	596.7	596.5
55°	556.3	549.3	549.1	540.9	540.9
57.5°	500.3	491.0	491.8	484.8	483.8
60°	461.6	451.5	452.3	446.1	445.1
62.5°	423.6	412.0	414.4	407.4	407.2
65°	360.6	352.5	353.4	350.3	350.3
67.5°	300.0	292.6	298.0	295.5	295.3
70°	255.5	250.5	257.6	257.5	256.5
72.5°	214.3	214.1	222.9	223.0	223.6
75°	155.6	162.6	172.1	173.1	173.1
77.5°	103.9	116.3	126.7	127.1	126.9
80°	74.2	88.3	97.9	99.9	98.9
82.5°	50.3	65.2	73.1	75.2	74.2
85°	22.7	34.8	41.2	42.2	41.2
87.5°	6.6	13.8	16.5	16.4	14.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	85.9	199.3	58.0	43.8
95°	52.7	209.1	939.9	325.3	200.5
97.5°	96.8	245.0	1447.5	1035.8	709.8
100°	127.6	266.3	1557.7	1577.8	1215.4
102.5°	161.6	289.2	1533.4	2019.7	1703.2
105°	214.7	325.6	1407.8	2486.7	2363.9
107.5°	268.6	368.0	1261.2	2618.4	2727.7
110°	305.9	399.0	1176.9	2568.0	2813.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	341.5	429.9	1120.2	2448.9	2799.0
115°	399.1	482.2	1067.5	2261.5	2655.6
117.5°	449.7	527.7	1036.3	2056.6	2474.1
120°	490.2	555.6	1033.1	1939.5	2339.6
122.5°	522.6	588.0	1025.0	1836.8	2208.4
125°	563.1	624.5	1018.9	1690.8	2021.6
127.5°	607.3	664.7	1015.7	1603.6	1876.1
130°	630.0	687.4	1010.8	1542.9	1780.5
132.5°	654.3	710.1	1010.8	1495.4	1714.1
135°	688.7	746.2	1006.7	1428.3	1614.4
137.5°	721.1	777.0	1006.3	1371.4	1532.2
140°	745.4	802.9	1004.7	1324.2	1478.7
142.5°	773.0	820.9	1009.6	1286.6	1425.2
145°	812.3	853.9	1014.8	1236.1	1347.0
147.5°	845.9	886.3	1023.8	1185.2	1281.0
150°	875.1	902.8	1027.0	1168.3	1235.6
152.5°	897.8	927.1	1030.2	1145.5	1208.1
155°	927.7	949.5	1039.2	1117.2	1162.7
157.5°	965.0	978.1	1041.2	1104.3	1136.8
160°	984.5	994.4	1049.3	1094.5	1122.2
162.5°	995.8	1007.3	1050.9	1086.2	1107.6
165°	1025.0	1028.9	1051.3	1073.9	1089.8
167.5°	1044.8	1041.3	1060.6	1070.9	1077.2
170°	1051.3	1049.3	1057.4	1059.6	1067.5
172.5°	1065.9	1059.2	1062.2	1056.3	1062.6
175°	1073.6	1067.6	1063.5	1057.2	1049.3
177.5°	1076.8	1067.3	1062.2	1055.8	1057.4
180°	1065.5	1065.5	1065.5	1065.5	1065.5

(END OF REPORT)