

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: P561742

Luminaire Tested: **SQ4-PC3-150U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561742
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 (4500K)
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 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

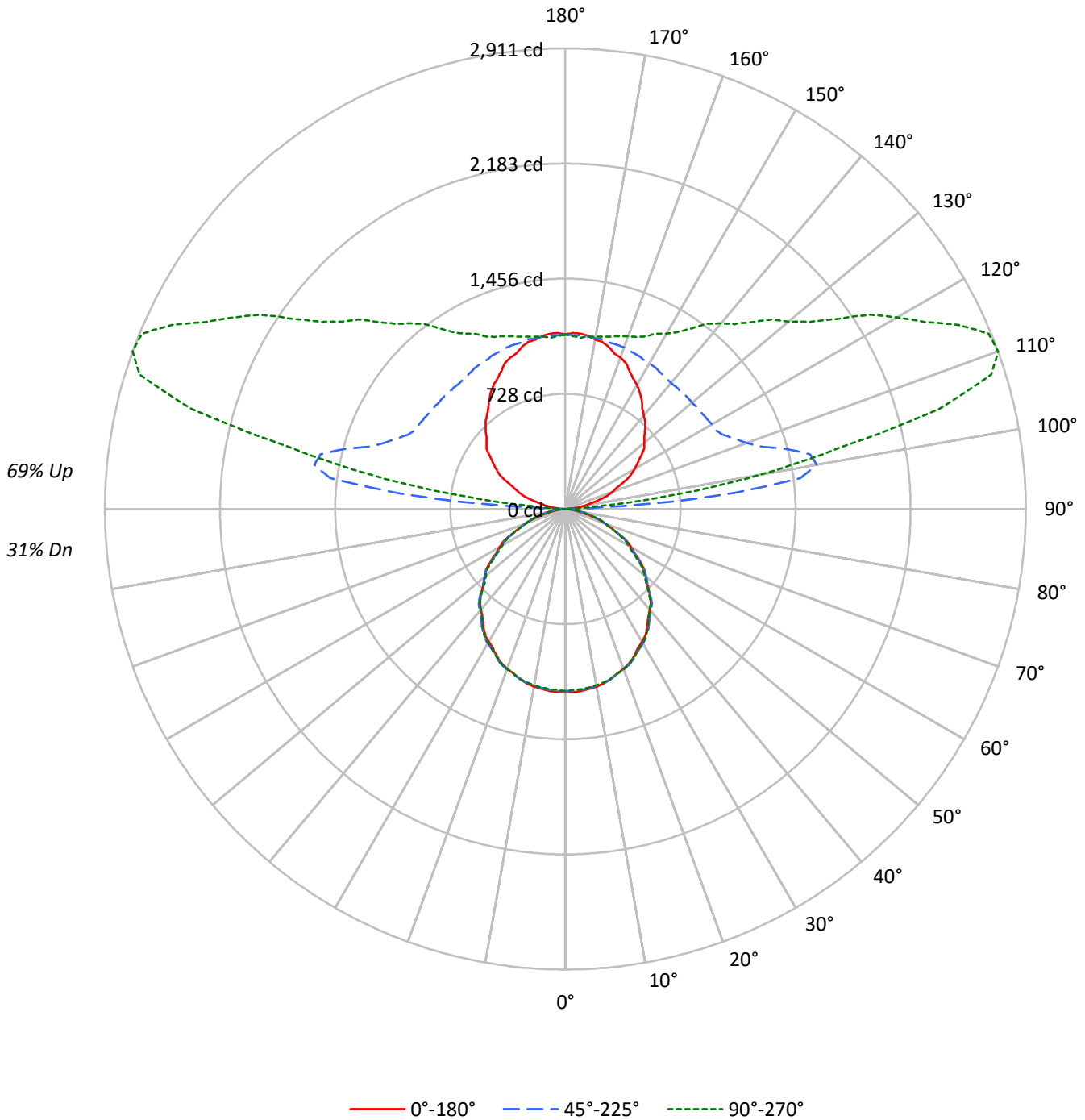
Lumens per Lamp: N/A
Luminaire Lumens: 9990.5 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 83
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°	10622	10622	10622
5°	10703	10633	10594
10°	10676	10627	10597
15°	10620	10620	10610
20°	10551	10582	10582
25°	10451	10527	10495
30°	10323	10449	10403
35°	10169	10326	10254
40°	10001	10143	10040
45°	9820	9890	9736
50°	9564	9564	9410
55°	9260	9140	9003
60°	8813	8636	8497
65°	8145	7981	7914
70°	7132	7189	7159
75°	5739	6345	6384
80°	4081	5382	5435
85°	2488	4510	4510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	1.1
10°-20°	312.7	3.1
20°-30°	473.5	4.7
30°-40°	567.7	5.7
40°-50°	578.8	5.8
50°-60°	505.3	5.1
60°-70°	361.8	3.6
70°-80°	186.3	1.9
80°-90°	47.1	0.5
90°-100°	502.4	5.0
100°-110°	1429.4	14.3
110°-120°	1369.6	13.7
120°-130°	1083.9	10.8
130°-140°	870.0	8.7
140°-150°	681.1	6.8
150°-160°	498.4	5.0
160°-170°	308.7	3.1
170°-180°	104.8	1.0
0°-30°	895.2	9.0
0°-40°	1462.9	14.6
0°-60°	2547.0	25.5
0°-90°	3142.2	31.5
90°-120°	3301.4	33.0
90°-150°	5936.5	59.4
90°-180°	6848.0	68.5
0°-180°	9990.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1156	1144	1148	1145	1144	110
15°	1112	1102	1112	1112	1111	314
25°	1027	1019	1034	1031	1031	472
35°	903	901	917	910	910	565
45°	753	750	758	748	746	579
55°	576	568	568	560	560	513
65°	373	365	366	362	362	369
75°	161	168	178	179	179	174
85°	24	36	43	44	43	32
90°	0	0	0	0	0	3
95°	54	216	972	337	208	62
105°	222	337	1457	2573	2446	235
115°	413	499	1105	2340	2748	407
125°	583	646	1054	1750	2092	522
135°	713	772	1042	1478	1670	550
145°	840	884	1050	1279	1394	525
155°	960	982	1075	1156	1203	444
165°	1061	1065	1088	1111	1128	298
175°	1111	1105	1100	1094	1086	105
180°	1102	1102	1102	1102	1102	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.3	1151.3	1151.3	1151.3	1151.3
2.5°	1158.1	1148.1	1151.3	1148.7	1144.5
5°	1155.6	1144.1	1148.1	1144.9	1143.9
7.5°	1147.3	1135.8	1141.1	1138.9	1137.9
10°	1139.6	1128.1	1134.3	1132.1	1131.1
12.5°	1129.4	1118.7	1125.7	1123.6	1123.4
15°	1111.9	1102.5	1111.9	1111.9	1110.8
17.5°	1089.9	1081.4	1091.4	1092.0	1091.4
20°	1074.6	1065.2	1077.8	1076.7	1077.8
22.5°	1055.8	1048.1	1061.6	1058.8	1059.9
25°	1026.6	1019.3	1034.1	1030.9	1030.9
27.5°	992.1	986.8	1002.9	999.5	999.5
30°	969.0	963.8	980.8	976.5	976.5
32.5°	943.4	939.9	956.0	950.9	950.9
35°	902.9	900.8	916.8	910.4	910.4
37.5°	861.1	859.3	873.7	866.0	863.5
40°	830.4	829.4	842.2	833.6	833.6
42.5°	799.7	798.7	809.8	799.5	799.5
45°	752.6	750.5	758.0	748.3	746.2
47.5°	701.2	699.2	703.8	693.3	692.3
50°	666.3	664.2	666.3	656.7	655.6
52.5°	630.5	626.7	627.0	617.4	617.2
55°	575.7	568.4	568.2	559.7	559.7
57.5°	517.7	508.1	508.9	501.7	500.6
60°	477.6	467.2	468.0	461.6	460.5
62.5°	438.4	426.3	428.8	421.5	421.3
65°	373.1	364.8	365.6	362.5	362.5
67.5°	310.4	302.7	308.3	305.7	305.5
70°	264.4	259.2	266.5	266.5	265.4
72.5°	221.7	221.5	230.7	230.7	231.3
75°	161.0	168.3	178.0	179.1	179.1
77.5°	107.5	120.4	131.1	131.5	131.3
80°	76.8	91.3	101.3	103.4	102.3
82.5°	52.0	67.4	75.7	77.8	76.8
85°	23.5	36.0	42.6	43.7	42.6
87.5°	6.8	14.3	17.1	17.0	15.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.8	88.9	206.2	60.0	45.3
95°	54.5	216.4	972.5	336.6	207.5
97.5°	100.2	253.5	1497.8	1071.8	734.4
100°	132.0	275.5	1611.8	1632.6	1257.6
102.5°	167.3	299.2	1586.6	2089.8	1762.3
105°	222.2	336.9	1456.7	2573.1	2446.0
107.5°	277.9	380.8	1305.0	2709.3	2822.4
110°	316.5	412.8	1217.8	2657.2	2911.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	444.8	1159.1	2533.9	2896.2
115°	412.9	499.0	1104.6	2340.0	2747.8
117.5°	465.3	546.1	1072.3	2128.0	2560.0
120°	507.2	574.9	1068.9	2006.9	2420.8
122.5°	540.8	608.4	1060.6	1900.6	2285.0
125°	582.7	646.2	1054.3	1749.5	2091.8
127.5°	628.4	687.8	1050.9	1659.3	1941.3
130°	651.8	711.3	1045.9	1596.4	1842.4
132.5°	677.0	734.8	1045.9	1547.4	1773.6
135°	712.6	772.1	1041.7	1477.8	1670.5
137.5°	746.2	804.0	1041.3	1419.0	1585.4
140°	771.3	830.7	1039.6	1370.2	1530.1
142.5°	799.8	849.4	1044.6	1331.3	1474.7
145°	840.5	883.5	1050.1	1279.1	1393.8
147.5°	875.3	917.1	1059.3	1226.3	1325.5
150°	905.5	934.2	1062.7	1208.9	1278.5
152.5°	928.9	959.3	1066.0	1185.3	1250.0
155°	960.0	982.5	1075.2	1156.0	1203.1
157.5°	998.5	1012.0	1077.3	1142.6	1176.3
160°	1018.6	1028.9	1085.7	1132.5	1161.2
162.5°	1030.4	1042.3	1087.4	1123.9	1146.1
165°	1060.6	1064.7	1087.8	1111.2	1127.6
167.5°	1081.1	1077.4	1097.4	1108.1	1114.6
170°	1087.8	1085.8	1094.1	1096.4	1104.6
172.5°	1102.9	1095.9	1099.1	1093.0	1099.5
175°	1110.9	1104.7	1100.4	1093.9	1085.7
177.5°	1114.2	1104.4	1099.1	1092.5	1094.1
180°	1102.5	1102.5	1102.5	1102.5	1102.5

(END OF REPORT)