

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: P562470

Luminaire Tested: **SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562470
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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

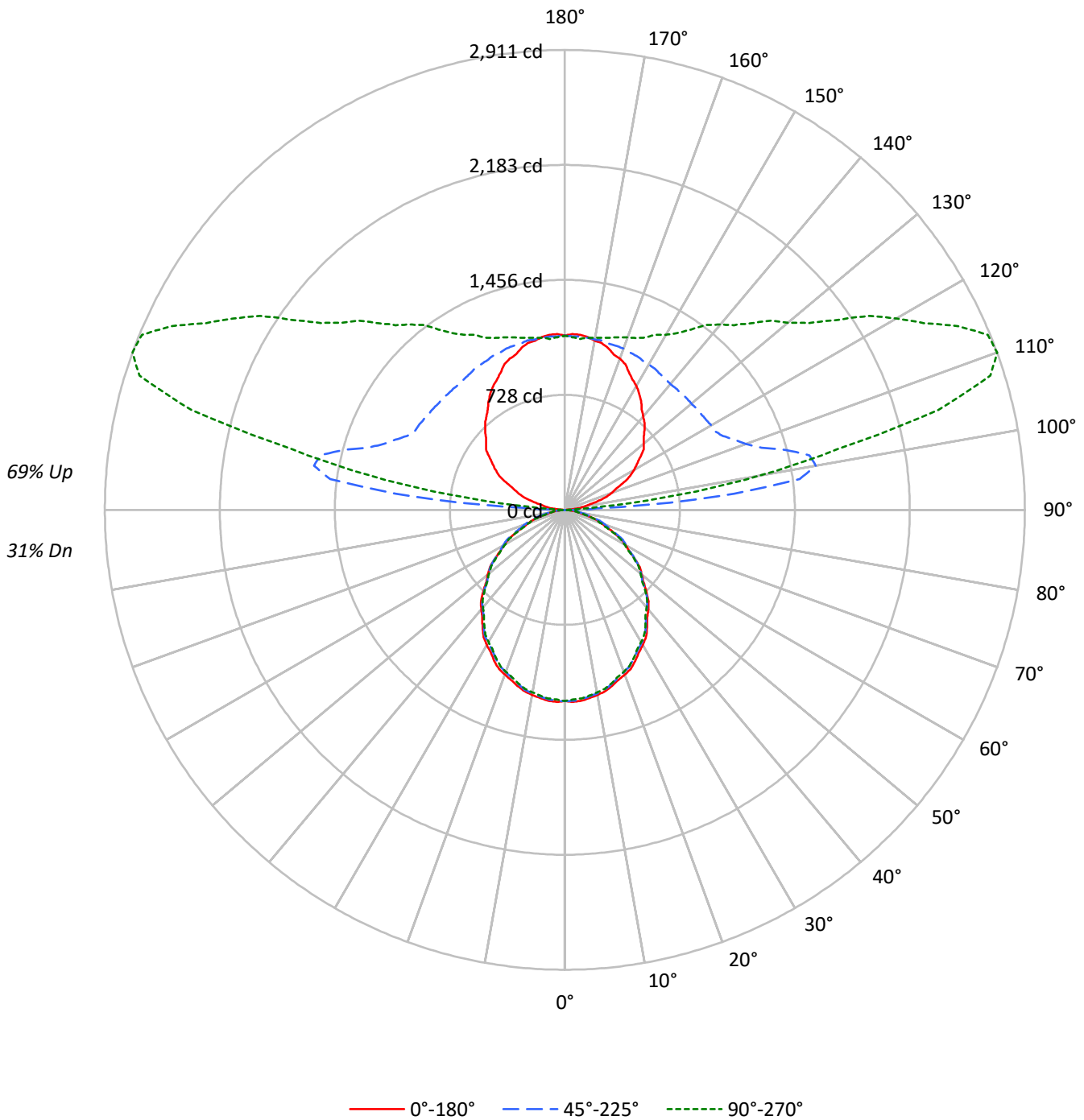
Lumens per Lamp: N/A
Luminaire Lumens: 9926.7 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	48	47	46	34	33	33	26
2	85	78	72	67	76	70	65	61	56	52	49	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	33	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	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11163	11163	11163
5°	11235	11147	11097
10°	11146	11056	10996
15°	11027	10905	10865
20°	10895	10728	10708
25°	10744	10549	10516
30°	10516	10357	10289
35°	10218	10074	10014
40°	9899	9745	9706
45°	9514	9389	9347
50°	9120	9043	8982
55°	8694	8694	8557
60°	8163	8320	8025
65°	7471	7844	7285
70°	6585	7219	6412
75°	5625	6459	5472
80°	4362	5435	4421
85°	2826	4171	3726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	1.1
10°-20°	321.7	3.2
20°-30°	477.2	4.8
30°-40°	558.3	5.6
40°-50°	555.8	5.6
50°-60°	480.0	4.8
60°-70°	345.5	3.5
70°-80°	181.2	1.8
80°-90°	44.9	0.5
90°-100°	502.4	5.1
100°-110°	1429.4	14.4
110°-120°	1369.6	13.8
120°-130°	1083.9	10.9
130°-140°	870.0	8.8
140°-150°	681.1	6.9
150°-160°	498.4	5.0
160°-170°	308.7	3.1
170°-180°	104.8	1.1
0°-30°	912.8	9.2
0°-40°	1471.1	14.8
0°-60°	2506.9	25.3
0°-90°	3078.4	31.0
90°-120°	3301.4	33.3
90°-150°	5936.5	59.8
90°-180°	6848.0	69.0
0°-180°	9926.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1213	1200	1204	1200	1198	115
15°	1154	1140	1142	1140	1138	325
25°	1055	1038	1036	1030	1033	485
35°	907	895	894	886	889	567
45°	729	723	720	717	716	563
55°	540	539	540	533	532	482
65°	342	353	359	345	334	339
75°	158	172	181	169	154	169
85°	27	35	39	37	35	35
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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CATALOG NUMBER: SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1209.9	1209.9	1209.9	1209.9	1209.9
2.5°	1216.8	1206.8	1209.9	1207.3	1201.4
5°	1213.1	1199.6	1203.6	1200.3	1198.2
7.5°	1200.8	1188.3	1191.2	1187.7	1186.5
10°	1189.7	1177.2	1180.1	1175.8	1173.7
12.5°	1176.9	1163.6	1166.5	1162.2	1160.9
15°	1154.5	1139.9	1141.7	1139.5	1137.5
17.5°	1128.5	1113.7	1114.0	1110.6	1110.2
20°	1109.7	1094.1	1092.7	1088.5	1090.6
22.5°	1089.3	1072.8	1071.4	1065.5	1068.4
25°	1055.4	1037.7	1036.2	1029.9	1033.0
27.5°	1016.1	998.6	998.7	989.8	993.1
30°	987.1	970.5	972.2	961.7	965.8
32.5°	956.4	941.4	942.4	931.8	936.0
35°	907.2	894.7	894.4	885.9	889.1
37.5°	856.9	845.8	844.1	839.2	840.0
40°	821.9	812.5	809.1	805.9	805.9
42.5°	785.2	776.7	773.3	770.9	770.1
45°	729.2	722.9	719.6	717.4	716.4
47.5°	673.7	667.9	665.0	663.5	662.4
50°	635.4	631.2	630.0	626.8	625.8
52.5°	597.0	594.5	593.4	589.3	588.2
55°	540.5	539.4	540.5	533.0	532.0
57.5°	481.6	483.3	486.8	476.7	474.2
60°	442.4	446.6	450.9	439.1	434.9
62.5°	402.3	409.0	415.1	401.5	395.7
65°	342.2	352.6	359.3	345.1	333.7
67.5°	284.2	297.1	305.1	289.9	277.0
70°	244.1	258.7	267.6	252.3	237.7
72.5°	209.2	225.4	232.6	218.2	203.6
75°	157.8	172.4	181.2	169.1	153.5
77.5°	111.9	125.7	133.0	122.5	109.6
80°	82.1	96.7	102.3	93.6	83.2
82.5°	58.2	70.3	74.2	68.9	61.8
85°	26.7	35.0	39.4	37.3	35.2
87.5°	6.8	12.7	16.2	16.2	17.1
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)