

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: P562418

Luminaire Tested: **SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562418
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-PW1-125U-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 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

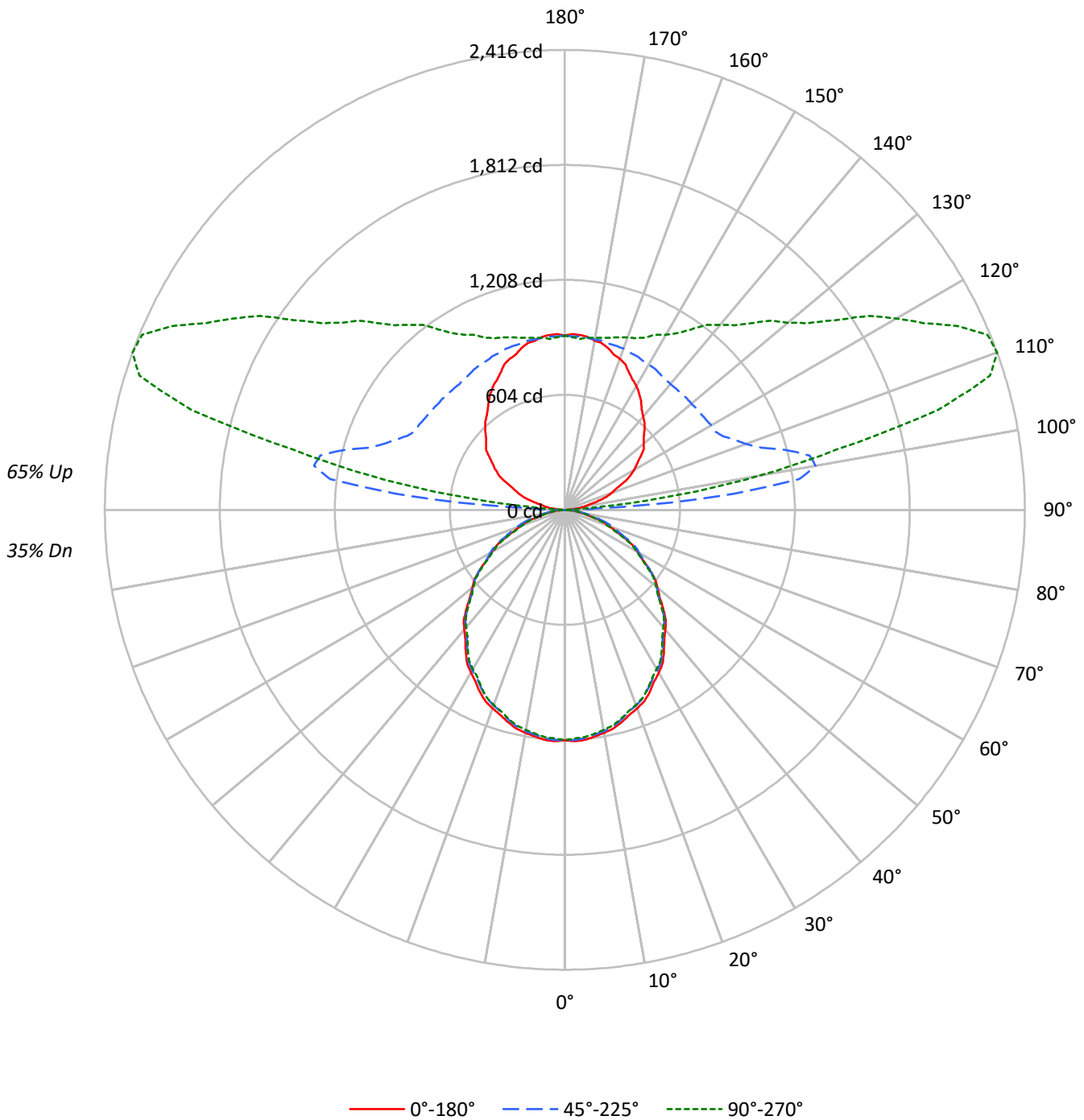
Lumens per Lamp: N/A
Luminaire Lumens: 8760.9 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 73.3
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	30	25
3	79	69	62	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9

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	1.3
10°-20°	321.7	3.7
20°-30°	477.2	5.4
30°-40°	558.3	6.4
40°-50°	555.8	6.3
50°-60°	480.0	5.5
60°-70°	345.5	3.9
70°-80°	181.2	2.1
80°-90°	44.9	0.5
90°-100°	416.8	4.8
100°-110°	1186.1	13.5
110°-120°	1136.4	13.0
120°-130°	899.4	10.3
130°-140°	721.9	8.2
140°-150°	565.2	6.5
150°-160°	413.5	4.7
160°-170°	256.2	2.9
170°-180°	86.9	1.0
0°-30°	912.8	10.4
0°-40°	1471.1	16.8
0°-60°	2506.9	28.6
0°-90°	3078.4	35.1
90°-120°	2739.4	31.3
90°-150°	4925.9	56.2
90°-180°	5682.0	64.9
0°-180°	8760.9	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°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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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°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)