

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: P562054

Luminaire Tested: **SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562054
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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: 8776.5 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

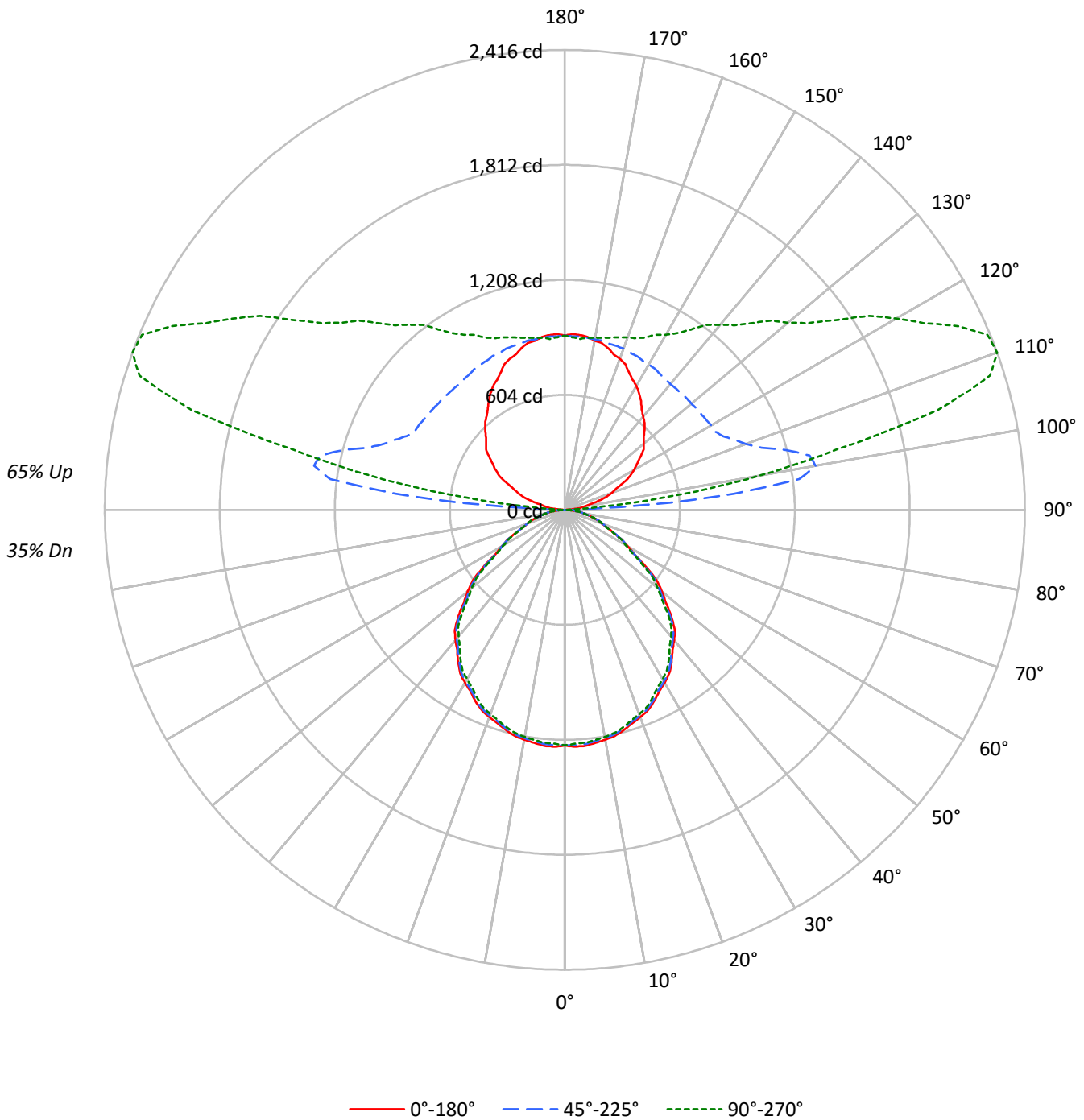
Input Watts (W): 73.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	43	43	43	35				
1	95	91	87	83	85	82	79	76	66	64	62	51	50	49	38	37	36	30				
2	86	79	73	68	78	72	67	63	58	55	52	45	43	41	34	32	31	26				
3	79	70	63	57	71	63	57	53	51	47	44	40	37	35	30	28	26	22				
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19				
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17				
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15				
7	56	44	37	31	51	41	34	29	33	28	25	26	23	20	20	18	16	13				
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	18	16	14	12				
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	10				
10	45	34	27	22	41	31	25	20	25	21	17	20	17	14	16	13	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11419	11419	11419
5°	11522	11433	11374
10°	11485	11405	11345
15°	11435	11364	11302
20°	11377	11304	11220
25°	11297	11221	11091
30°	11176	11096	10937
35°	11011	10914	10759
40°	10759	10643	10452
45°	10321	10139	9931
50°	9548	9318	9135
55°	8334	8146	7974
60°	7023	6964	6826
65°	6073	6097	6052
70°	5579	5608	5608
75°	5358	5358	5397
80°	5042	5095	5042
85°	4065	4510	4510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	1.3
10°-20°	334.9	3.8
20°-30°	505.1	5.8
30°-40°	601.8	6.9
40°-50°	593.3	6.8
50°-60°	453.5	5.2
60°-70°	280.6	3.2
70°-80°	159.4	1.8
80°-90°	48.5	0.6
90°-100°	416.8	4.7
100°-110°	1186.1	13.5
110°-120°	1136.4	12.9
120°-130°	899.4	10.2
130°-140°	721.9	8.2
140°-150°	565.2	6.4
150°-160°	413.5	4.7
160°-170°	256.2	2.9
170°-180°	86.9	1.0
0°-30°	957.0	10.9
0°-40°	1558.8	17.8
0°-60°	2605.6	29.7
0°-90°	3094.0	35.3
90°-120°	2739.4	31.2
90°-150°	4925.9	56.1
90°-180°	5682.0	64.7
0°-180°	8776.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1238	1238	1238	1238	1238	
5°	1244	1230	1234	1230	1228	118
15°	1197	1185	1190	1185	1183	338
25°	1110	1096	1102	1090	1090	511
35°	978	966	969	956	955	610
45°	791	781	777	763	761	606
55°	518	510	506	498	496	464
65°	278	276	279	277	277	282
75°	150	150	150	151	151	159
85°	38	40	43	43	43	45
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°	1237.7	1237.7	1237.7	1237.7	1237.7
2.5°	1245.3	1234.5	1237.7	1235.0	1229.1
5°	1244.1	1230.5	1234.5	1230.2	1228.1
7.5°	1234.5	1221.1	1225.1	1220.8	1219.5
10°	1225.9	1213.4	1217.4	1213.1	1211.0
12.5°	1216.6	1203.2	1208.0	1202.9	1200.8
15°	1197.2	1184.6	1189.7	1185.4	1183.3
17.5°	1175.8	1162.5	1167.5	1162.6	1159.8
20°	1158.8	1146.3	1151.3	1143.8	1142.8
22.5°	1140.0	1127.5	1132.6	1122.5	1122.3
25°	1109.7	1096.2	1102.3	1090.5	1089.5
27.5°	1073.7	1061.2	1066.2	1054.3	1053.0
30°	1049.0	1036.5	1041.5	1028.7	1026.6
32.5°	1020.8	1009.2	1013.4	1000.5	999.3
35°	977.6	966.1	969.0	956.2	955.2
37.5°	928.3	917.9	919.6	905.5	904.4
40°	893.3	882.9	883.7	868.8	867.8
42.5°	855.0	844.5	843.7	828.7	827.7
45°	791.0	780.6	777.1	763.2	761.1
47.5°	718.1	707.7	701.2	689.9	688.4
50°	665.2	654.8	649.2	639.5	636.4
52.5°	608.1	597.6	592.9	584.1	581.0
55°	518.1	509.8	506.4	497.8	495.7
57.5°	432.6	427.0	426.0	417.7	416.8
60°	380.6	377.4	377.4	369.9	369.9
62.5°	336.2	333.9	335.6	330.7	329.8
65°	278.2	276.1	279.3	277.2	277.2
67.5°	232.4	232.4	234.3	233.5	233.5
70°	206.8	206.8	207.9	207.9	207.9
72.5°	183.8	183.0	185.7	185.7	184.8
75°	150.3	150.3	150.3	151.4	151.4
77.5°	117.1	117.3	118.1	117.9	117.1
80°	94.9	95.9	95.9	94.9	94.9
82.5°	72.7	73.7	73.8	73.5	72.7
85°	38.4	40.5	42.6	42.6	42.6
87.5°	11.1	14.4	17.1	17.0	16.2
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)