

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: P520273

Luminaire Tested: **SQ4-F-125U-050D-835-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520273
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-17)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

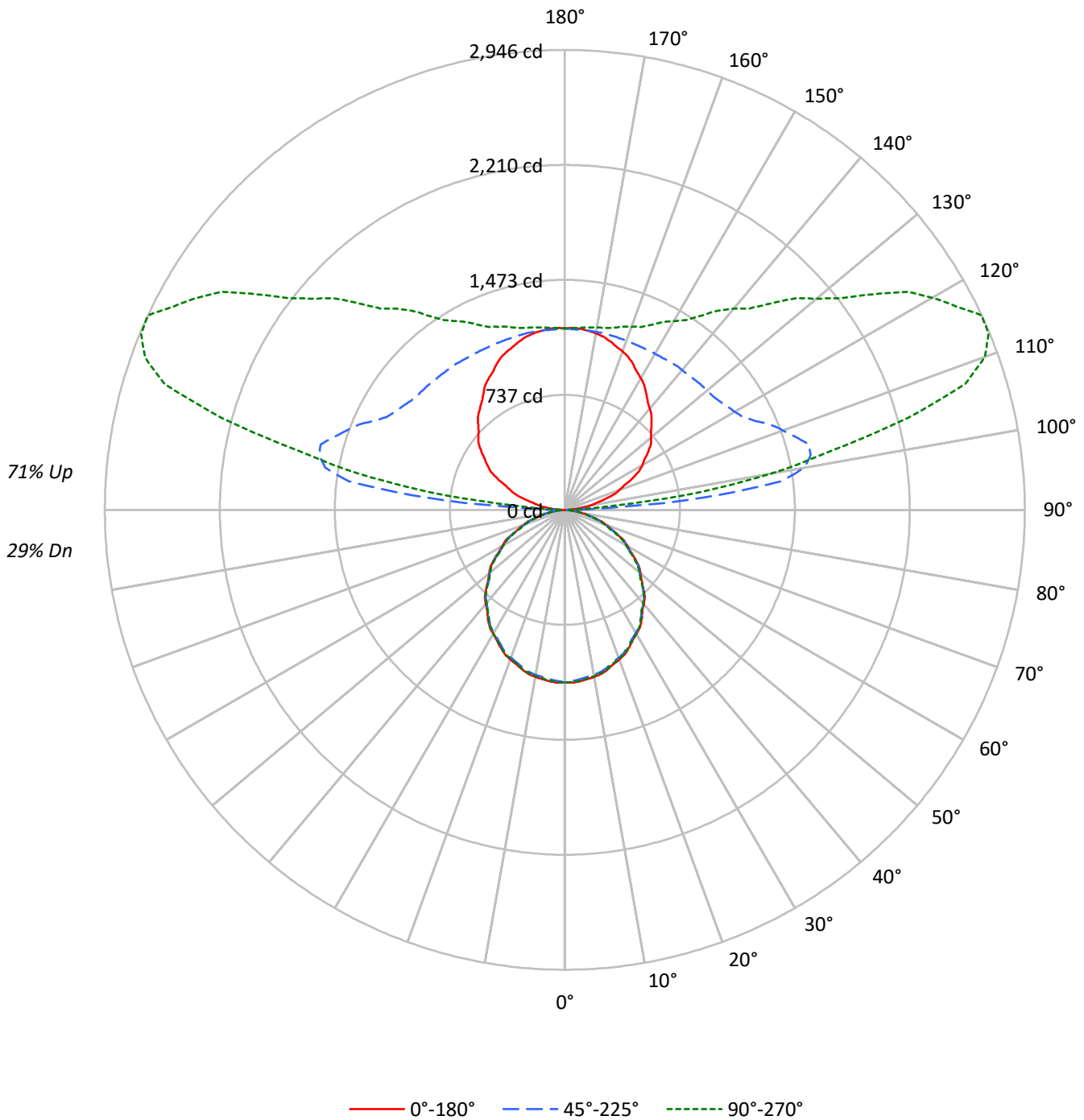
Lumens per Lamp: N/A
Luminaire Lumens: 10517.3 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.6
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	37	37	37	29				
1	93	89	85	82	83	80	77	74	63	60	58	47	45	44	32	31	31	24				
2	85	77	72	67	76	70	65	60	55	51	48	41	39	37	28	27	26	20				
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17				
4	70	60	52	47	63	54	47	42	43	38	34	32	29	26	22	20	19	15				
5	64	53	45	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13				
6	59	48	40	34	53	43	36	31	34	29	25	26	22	20	18	16	14	11				
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	13	10				
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	13	11	9				
9	47	35	28	23	42	32	26	21	26	21	17	20	16	14	14	12	10	8				
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6796	6796	6796
5°	6813	6731	6786
10°	6790	6707	6753
15°	6743	6659	6715
20°	6680	6602	6651
25°	6605	6525	6585
30°	6513	6460	6503
35°	6442	6364	6397
40°	6318	6259	6271
45°	6188	6137	6137
50°	6057	6001	5973
55°	5916	5837	5805
60°	5696	5605	5568
65°	5424	5317	5253
70°	5053	4947	4841
75°	4534	4394	4287
80°	3666	3616	3510
85°	2195	2505	2611



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.2	1.0
10°-20°	296.9	2.8
20°-30°	445.9	4.2
30°-40°	532.3	5.1
40°-50°	545.4	5.2
50°-60°	486.4	4.6
60°-70°	362.3	3.4
70°-80°	196.6	1.9
80°-90°	48.3	0.5
90°-100°	543.4	5.2
100°-110°	1463.8	13.9
110°-120°	1536.2	14.6
120°-130°	1246.6	11.9
130°-140°	977.7	9.3
140°-150°	750.6	7.1
150°-160°	539.7	5.1
160°-170°	329.7	3.1
170°-180°	111.2	1.1
0°-30°	847.0	8.1
0°-40°	1379.3	13.1
0°-60°	2411.1	22.9
0°-90°	3018.3	28.7
90°-120°	3543.5	33.7
90°-150°	6518.4	62.0
90°-180°	7499.0	71.3
0°-180°	10517.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1105	1105	1105	1105	1105	
5°	1103	1102	1090	1100	1099	105
15°	1059	1056	1046	1055	1055	298
25°	973	970	961	967	970	448
35°	858	855	848	848	852	535
45°	711	713	706	704	706	549
55°	552	552	544	540	541	491
65°	373	371	365	361	361	369
75°	191	189	185	182	180	202
85°	31	34	36	37	37	44
90°	3	9	18	19	19	7
95°	83	296	891	456	315	87
105°	271	421	1619	2422	2273	285
115°	478	585	1348	2605	2946	470
125°	653	750	1210	2046	2408	583
135°	786	877	1176	1650	1869	606
145°	909	980	1162	1411	1515	570
155°	1031	1069	1151	1266	1307	475
165°	1119	1132	1156	1202	1208	315
175°	1163	1162	1157	1173	1170	110
180°	1162	1162	1162	1162	1162	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.9	1104.9	1104.9	1104.9	1104.9
2.5°	1108.4	1106.2	1096.6	1104.9	1103.7
5°	1103.4	1101.9	1090.1	1100.4	1099.0
7.5°	1095.4	1092.6	1080.9	1091.0	1089.5
10°	1087.1	1084.3	1073.8	1082.7	1081.2
12.5°	1076.5	1074.7	1063.2	1072.0	1071.7
15°	1059.0	1056.2	1045.7	1054.6	1054.6
17.5°	1036.0	1034.2	1024.1	1032.7	1031.5
20°	1020.6	1017.7	1008.7	1016.1	1016.1
22.5°	1001.6	999.9	991.0	997.2	998.4
25°	973.2	970.4	961.4	967.4	970.3
27.5°	941.9	939.6	932.1	936.0	938.0
30°	917.0	917.0	909.6	911.2	915.6
32.5°	894.6	894.6	886.0	887.5	889.5
35°	857.9	855.0	847.5	847.6	852.0
37.5°	815.3	813.8	809.1	808.2	809.4
40°	786.9	785.4	779.5	781.0	781.0
42.5°	758.5	757.0	751.1	749.1	751.4
45°	711.4	712.9	705.5	704.0	705.5
47.5°	665.0	665.0	659.1	655.0	657.3
50°	633.0	633.0	627.1	624.2	624.2
52.5°	599.9	601.1	594.0	589.9	591.0
55°	551.7	551.7	544.3	539.9	541.3
57.5°	498.5	498.5	491.1	486.7	489.3
60°	463.0	463.0	455.6	451.1	452.6
62.5°	427.5	427.5	420.1	415.6	415.9
65°	372.7	371.3	365.3	360.9	360.9
67.5°	320.1	316.3	311.8	305.9	305.9
70°	281.0	279.5	275.1	269.2	269.2
72.5°	245.5	243.0	238.4	233.7	233.7
75°	190.8	189.3	184.9	181.9	180.4
77.5°	136.7	135.5	135.2	131.0	132.2
80°	103.5	103.5	102.1	99.1	99.1
82.5°	74.0	75.1	72.5	71.9	70.7
85°	31.1	33.9	35.5	37.0	37.0
87.5°	6.5	11.1	11.8	13.3	13.3
90°	3.0	8.8	17.8	19.2	19.2
92.5°	36.1	127.6	252.1	121.4	84.4
95°	82.9	295.5	890.8	455.6	315.2
97.5°	132.3	338.3	1397.2	1167.3	880.2
100°	170.2	355.4	1558.2	1630.4	1352.5
102.5°	206.9	379.4	1611.5	1977.1	1749.1
105°	270.8	421.2	1618.9	2422.0	2272.9
107.5°	331.1	465.4	1549.9	2650.6	2689.1
110°	371.4	498.8	1487.2	2721.6	2861.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	414.0	532.1	1426.8	2705.9	2936.5
115°	478.0	585.0	1348.1	2604.7	2946.2
117.5°	536.3	636.7	1287.1	2443.5	2823.7
120°	574.2	671.1	1256.3	2327.7	2718.4
122.5°	607.3	703.1	1233.9	2209.3	2598.8
125°	652.6	749.5	1210.5	2045.9	2407.6
127.5°	696.1	791.5	1195.7	1901.8	2224.7
130°	722.2	817.6	1189.8	1819.2	2102.8
132.5°	748.1	842.6	1183.9	1746.4	2006.9
135°	785.7	876.9	1176.5	1650.5	1868.9
137.5°	821.5	909.0	1172.6	1569.1	1748.5
140°	846.4	930.4	1169.1	1519.0	1681.1
142.5°	872.5	950.6	1166.7	1472.3	1608.8
145°	908.6	979.5	1161.7	1411.1	1515.3
147.5°	947.6	1009.3	1156.6	1359.7	1441.6
150°	973.7	1027.3	1154.3	1327.4	1395.4
152.5°	997.4	1043.9	1153.1	1301.1	1356.3
155°	1031.4	1069.0	1151.3	1266.2	1306.6
157.5°	1061.3	1090.5	1151.6	1241.6	1268.7
160°	1080.3	1104.8	1152.8	1227.2	1247.4
162.5°	1096.8	1116.8	1154.0	1215.2	1229.7
165°	1118.7	1131.8	1155.7	1201.7	1207.5
167.5°	1136.5	1144.0	1157.2	1191.3	1193.6
170°	1148.3	1151.2	1157.2	1185.3	1185.3
172.5°	1155.4	1156.0	1158.4	1179.4	1179.4
175°	1163.1	1161.7	1157.2	1173.4	1170.5
177.5°	1166.4	1164.0	1158.1	1167.5	1165.2
180°	1161.7	1161.7	1161.7	1161.7	1161.7

(END OF REPORT)