

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: P562056

Luminaire Tested: **SQ4-PR1-125U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562056
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9000.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

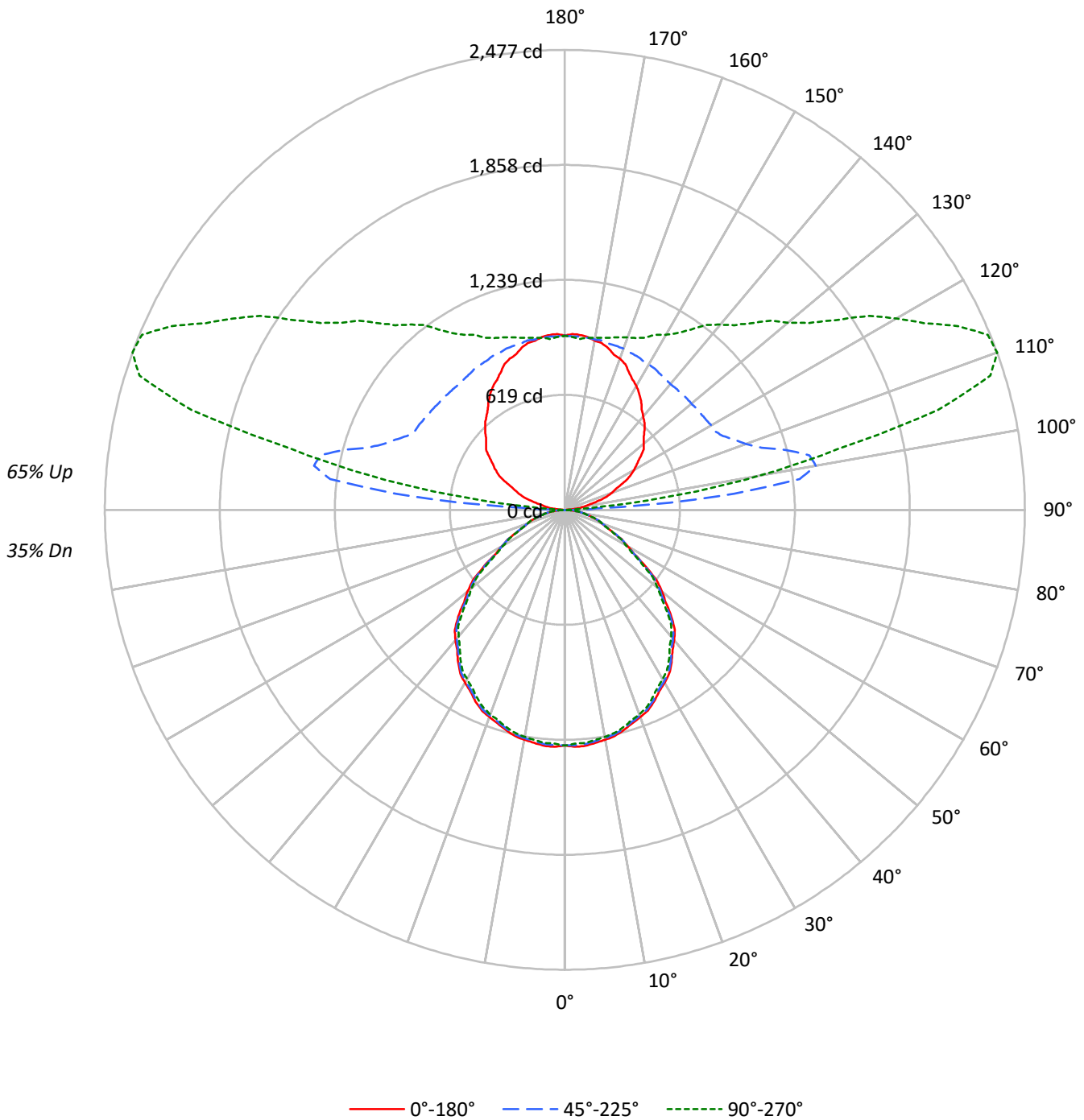
Input Watts (W): 73.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	11710	11710	11710
5°	11815	11724	11663
10°	11778	11696	11635
15°	11726	11653	11590
20°	11667	11592	11506
25°	11585	11506	11373
30°	11460	11378	11215
35°	11290	11192	11032
40°	11033	10914	10717
45°	10583	10398	10184
50°	9790	9555	9367
55°	8546	8353	8176
60°	7202	7141	6999
65°	6228	6252	6204
70°	5722	5751	5751
75°	5493	5493	5532
80°	5170	5228	5170
85°	4171	4626	4626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	1.3
10°-20°	343.4	3.8
20°-30°	517.9	5.8
30°-40°	617.1	6.9
40°-50°	608.4	6.8
50°-60°	465.0	5.2
60°-70°	287.8	3.2
70°-80°	163.4	1.8
80°-90°	49.7	0.6
90°-100°	427.5	4.7
100°-110°	1216.3	13.5
110°-120°	1165.4	12.9
120°-130°	922.3	10.2
130°-140°	740.3	8.2
140°-150°	579.6	6.4
150°-160°	424.1	4.7
160°-170°	262.7	2.9
170°-180°	89.1	1.0
0°-30°	981.4	10.9
0°-40°	1598.5	17.8
0°-60°	2671.9	29.7
0°-90°	3172.8	35.3
90°-120°	2809.1	31.2
90°-150°	5051.4	56.1
90°-180°	5827.0	64.7
0°-180°	9000.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1276	1262	1266	1262	1259	121
15°	1228	1215	1220	1216	1213	346
25°	1138	1124	1130	1118	1117	524
35°	1002	991	994	981	980	626
45°	811	800	797	783	780	621
55°	531	523	519	510	508	476
65°	285	283	286	284	284	289
75°	154	154	154	155	155	163
85°	39	42	44	44	44	46
90°	0	0	0	0	0	4
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.2	1269.2	1269.2	1269.2	1269.2
2.5°	1277.1	1265.9	1269.2	1266.4	1260.4
5°	1275.7	1261.8	1265.9	1261.5	1259.3
7.5°	1265.9	1252.2	1256.3	1251.9	1250.6
10°	1257.2	1244.3	1248.4	1244.0	1241.9
12.5°	1247.5	1233.9	1238.8	1233.5	1231.4
15°	1227.6	1214.8	1220.0	1215.6	1213.4
17.5°	1205.8	1192.1	1197.3	1192.2	1189.4
20°	1188.3	1175.5	1180.6	1173.0	1171.9
22.5°	1169.0	1156.2	1161.4	1151.1	1150.9
25°	1138.0	1124.1	1130.3	1118.3	1117.2
27.5°	1101.1	1088.2	1093.4	1081.1	1079.8
30°	1075.7	1062.9	1068.0	1054.9	1052.7
32.5°	1046.8	1034.9	1039.2	1026.0	1024.7
35°	1002.4	990.7	993.7	980.6	979.5
37.5°	951.9	941.3	943.0	928.5	927.5
40°	916.1	905.4	906.2	890.9	889.8
42.5°	876.7	866.0	865.1	849.8	848.7
45°	811.1	800.5	796.9	782.7	780.5
47.5°	736.4	725.7	719.1	707.5	706.0
50°	682.1	671.5	665.7	655.8	652.6
52.5°	623.5	612.9	608.0	599.0	595.8
55°	531.3	522.7	519.3	510.5	508.3
57.5°	443.6	437.8	436.8	428.3	427.4
60°	390.3	387.1	387.0	379.3	379.3
62.5°	344.8	342.4	344.1	339.1	338.2
65°	285.3	283.2	286.4	284.2	284.2
67.5°	238.3	238.3	240.3	239.4	239.4
70°	212.1	212.1	213.2	213.2	213.2
72.5°	188.5	187.6	190.4	190.4	189.6
75°	154.1	154.1	154.1	155.2	155.2
77.5°	120.0	120.2	121.1	120.9	120.0
80°	97.3	98.4	98.4	97.3	97.3
82.5°	74.6	75.6	75.6	75.4	74.6
85°	39.4	41.5	43.7	43.7	43.7
87.5°	11.4	14.8	17.5	17.5	16.6
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)