

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: P563695

Luminaire Tested: **SQ4-PP3-125U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563695
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-075D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

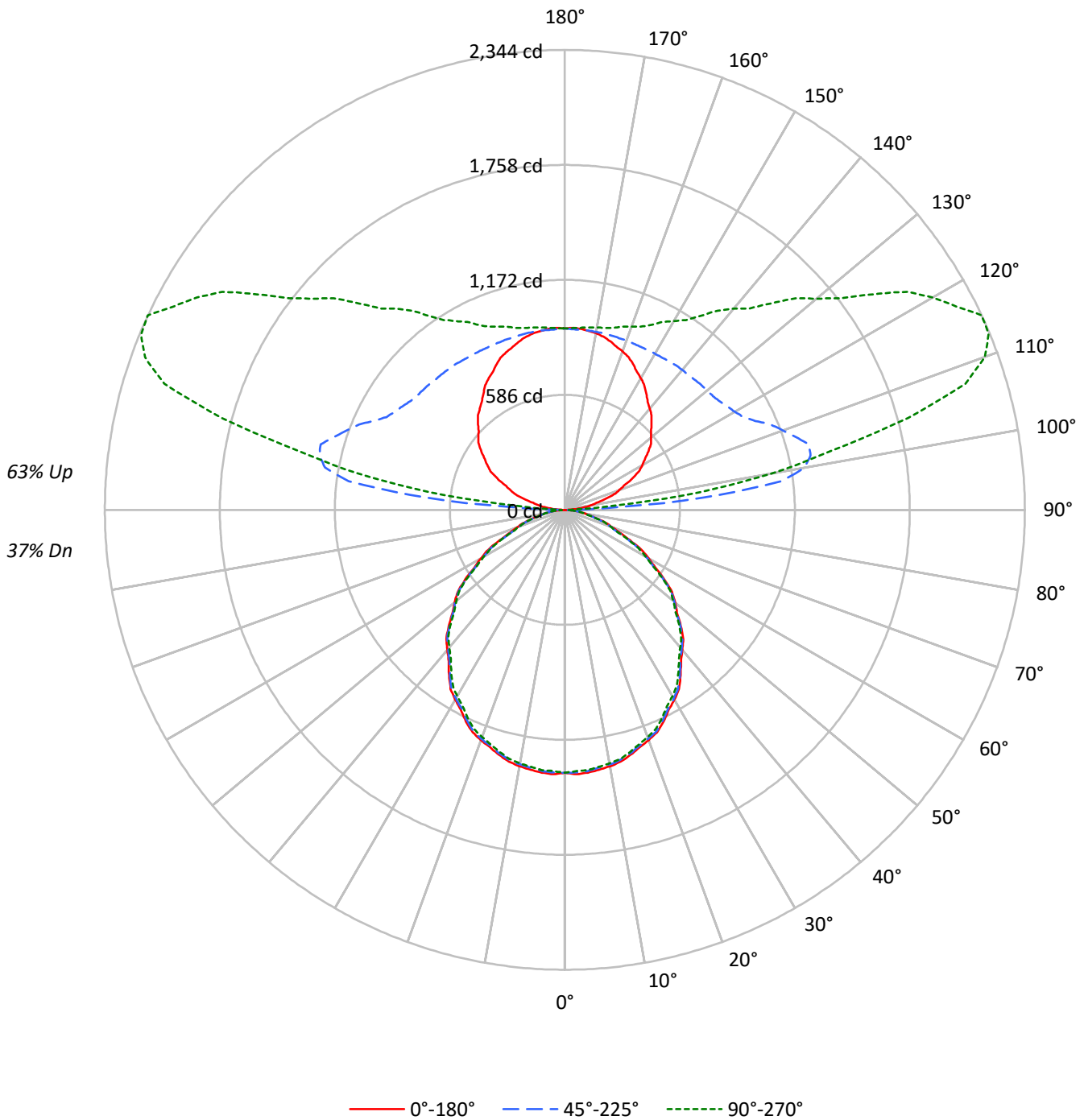
Lumens per Lamp: N/A
Luminaire Lumens: 9398.9 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.9
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	76	76	76	59	59	59	44	44	44	37				37
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37				31	
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32				26	
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27				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	33	29	26	25	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	24	27	23	20	20	18	16				13	
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14				12	
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13				11	
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12				10	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8241	8241	8241
5°	8302	8251	8222
10°	8288	8229	8192
15°	8233	8188	8143
20°	8179	8132	8071
25°	8082	8026	7946
30°	7932	7890	7790
35°	7724	7672	7574
40°	7477	7430	7345
45°	7273	7222	7150
50°	7012	6967	6899
55°	6649	6561	6510
60°	6052	5880	5851
65°	5333	5110	5094
70°	4604	4413	4413
75°	3964	3907	3852
80°	3493	3535	3454
85°	2738	2985	2985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	1.3
10°-20°	361.8	3.8
20°-30°	541.9	5.8
30°-40°	635.6	6.8
40°-50°	637.6	6.8
50°-60°	543.9	5.8
60°-70°	354.7	3.8
70°-80°	178.0	1.9
80°-90°	51.4	0.5
90°-100°	432.4	4.6
100°-110°	1164.8	12.4
110°-120°	1222.5	13.0
120°-130°	992.0	10.6
130°-140°	778.0	8.3
140°-150°	597.3	6.4
150°-160°	429.5	4.6
160°-170°	262.4	2.8
170°-180°	88.5	0.9
0°-30°	1030.4	11.0
0°-40°	1666.0	17.7
0°-60°	2847.5	30.3
0°-90°	3431.6	36.5
90°-120°	2819.7	30.0
90°-150°	5187.0	55.2
90°-180°	5967.0	63.5
0°-180°	9398.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1340	1340	1340	1340	1340	
5°	1345	1332	1336	1332	1332	128
15°	1293	1280	1286	1281	1279	365
25°	1191	1177	1183	1172	1171	548
35°	1029	1018	1022	1010	1009	643
45°	836	830	830	822	822	644
55°	620	618	612	608	607	551
65°	366	360	351	349	350	366
75°	167	167	164	163	162	181
85°	39	42	42	42	42	46
90°	2	7	14	15	15	6
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1339.9	1339.9	1339.9	1339.9	1339.9
2.5°	1348.4	1337.3	1339.9	1337.9	1332.4
5°	1344.6	1332.0	1336.4	1331.7	1331.7
7.5°	1335.4	1321.7	1326.1	1321.4	1321.1
10°	1327.0	1313.2	1317.6	1312.9	1311.7
12.5°	1314.8	1301.0	1306.3	1300.7	1300.5
15°	1292.9	1280.3	1285.9	1281.1	1278.8
17.5°	1268.3	1254.5	1261.2	1254.6	1253.7
20°	1249.5	1235.7	1242.4	1233.0	1233.0
22.5°	1226.9	1213.2	1220.8	1208.6	1208.6
25°	1190.8	1177.0	1182.6	1172.0	1170.8
27.5°	1147.8	1134.2	1140.0	1128.1	1127.8
30°	1116.8	1104.2	1110.9	1098.0	1096.8
32.5°	1083.0	1071.3	1076.2	1063.2	1062.1
35°	1028.7	1018.4	1021.7	1009.9	1008.7
37.5°	971.6	961.1	964.8	954.7	954.3
40°	931.2	924.4	925.4	917.1	914.8
42.5°	893.7	885.9	886.9	878.6	878.2
45°	836.1	830.4	830.3	822.0	822.0
47.5°	775.1	770.7	769.4	762.6	762.4
50°	732.8	729.3	728.1	722.2	721.0
52.5°	688.6	687.0	683.0	678.1	677.8
55°	620.0	617.7	611.8	608.3	607.1
57.5°	545.6	541.0	534.3	529.2	530.1
60°	492.0	487.5	478.0	475.6	475.6
62.5°	440.4	434.9	425.3	422.1	423.9
65°	366.4	359.5	351.1	348.8	350.0
67.5°	299.2	293.0	284.0	283.9	283.0
70°	256.0	252.6	245.4	245.4	245.4
72.5°	217.5	215.9	210.7	210.7	209.7
75°	166.8	166.8	164.4	163.2	162.1
77.5°	124.9	125.4	124.2	123.0	121.0
80°	98.6	100.9	99.8	98.6	97.5
82.5°	74.2	76.5	76.3	74.2	74.0
85°	38.8	42.2	42.3	42.3	42.3
87.5°	10.8	15.4	17.9	18.1	19.0
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)