

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: P564367

Luminaire Tested: **SQ4-PR1-125U-075D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564367
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

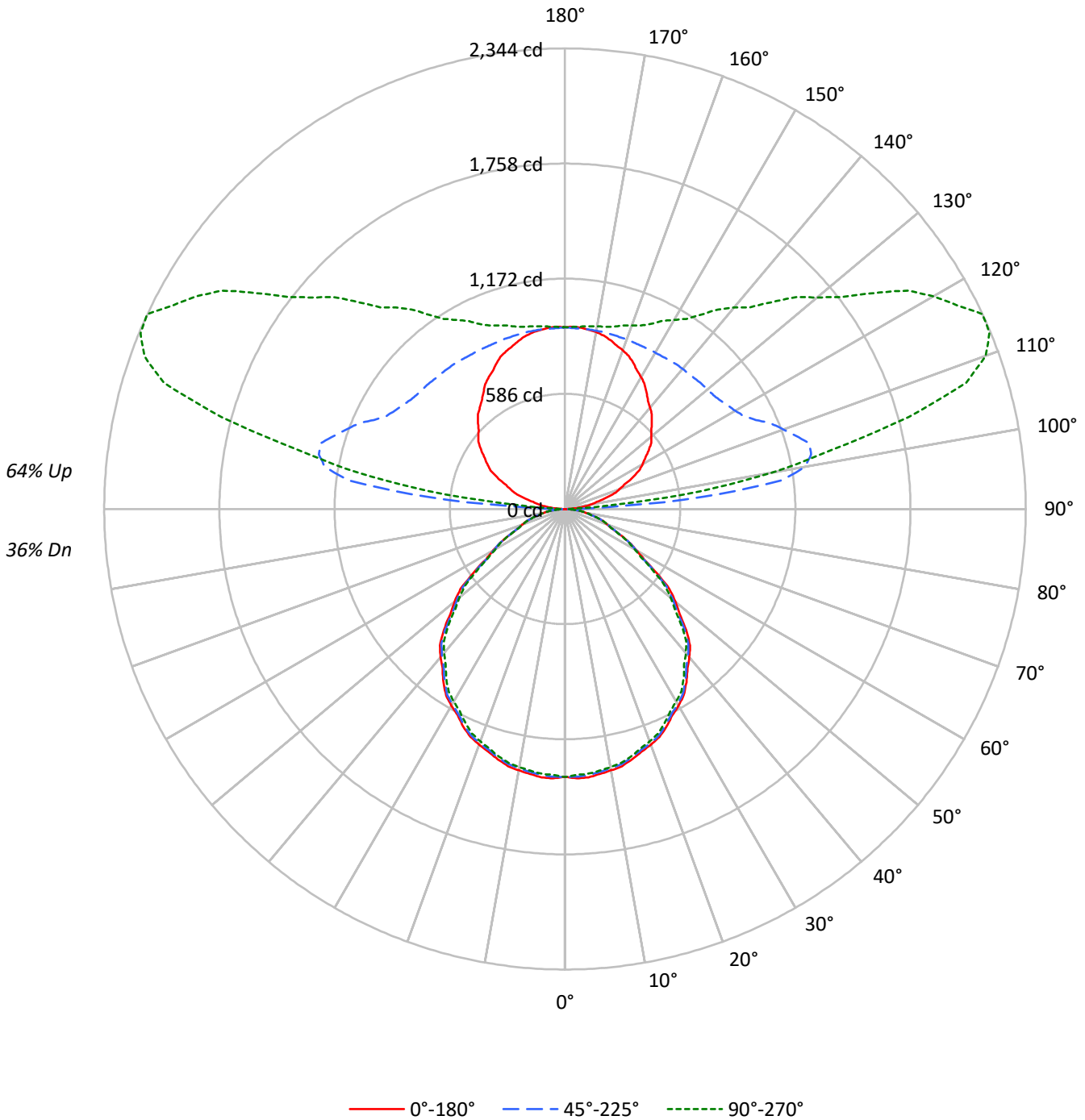
Lumens per Lamp: N/A
Luminaire Lumens: 9378.6 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	0
RCR																		
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	95	91	87	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	74	69	78	72	67	63	59	55	52	46	44	42	34	33	32	26
3	79	70	63	57	71	64	58	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	49	65	56	50	45	46	41	38	36	33	30	28	25	24	19
5	66	55	47	42	60	50	44	38	41	36	32	33	29	26	25	22	21	17
6	61	49	42	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	45	37	31	51	41	34	29	34	29	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	26	22	25	21	18	19	16	14	12
9	49	37	30	25	44	34	27	23	28	23	20	23	19	16	17	15	13	11
10	45	34	27	22	41	31	25	21	26	21	18	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8388	8388	8388
5°	8464	8398	8354
10°	8437	8378	8334
15°	8400	8348	8302
20°	8357	8304	8242
25°	8299	8242	8147
30°	8209	8151	8033
35°	8088	8017	7902
40°	7903	7818	7677
45°	7582	7449	7295
50°	7014	6845	6710
55°	6122	5983	5857
60°	5158	5115	5014
65°	4462	4478	4445
70°	4098	4118	4118
75°	3935	3935	3964
80°	3702	3744	3702
85°	2985	3317	3317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.0	1.4
10°-20°	369.0	3.9
20°-30°	556.5	5.9
30°-40°	663.1	7.1
40°-50°	653.8	7.0
50°-60°	499.6	5.3
60°-70°	309.2	3.3
70°-80°	175.6	1.9
80°-90°	55.6	0.6
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°	1054.4	11.2
0°-40°	1717.5	18.3
0°-60°	2870.9	30.6
0°-90°	3411.3	36.4
90°-120°	2819.7	30.1
90°-150°	5187.0	55.3
90°-180°	5967.0	63.6
0°-180°	9378.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1371	1356	1360	1355	1353	130
15°	1319	1305	1311	1306	1304	372
25°	1223	1208	1214	1202	1200	563
35°	1077	1064	1068	1054	1052	672
45°	872	860	856	841	839	668
55°	571	562	558	548	546	512
65°	307	304	308	305	305	311
75°	166	166	166	167	167	175
85°	42	45	47	47	47	49
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°	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1372.2	1360.2	1363.7	1360.8	1354.3
5°	1370.8	1355.8	1360.2	1355.4	1353.1
7.5°	1360.2	1345.5	1349.9	1345.1	1343.7
10°	1350.8	1337.0	1341.4	1336.6	1334.4
12.5°	1340.5	1325.8	1331.1	1325.4	1323.1
15°	1319.1	1305.3	1310.9	1306.1	1303.8
17.5°	1295.6	1280.9	1286.4	1281.0	1278.0
20°	1276.8	1263.0	1268.6	1260.3	1259.2
22.5°	1256.1	1242.3	1247.9	1236.9	1236.6
25°	1222.8	1207.8	1214.5	1201.6	1200.4
27.5°	1183.1	1169.3	1174.8	1161.7	1160.3
30°	1155.8	1142.0	1147.6	1133.4	1131.1
32.5°	1124.8	1111.9	1116.6	1102.5	1101.1
35°	1077.1	1064.5	1067.7	1053.6	1052.4
37.5°	1022.8	1011.4	1013.2	997.7	996.5
40°	984.3	972.8	973.7	957.3	956.1
42.5°	942.0	930.5	929.6	913.1	912.0
45°	871.6	860.1	856.3	841.0	838.7
47.5°	791.2	779.7	772.7	760.2	758.6
50°	733.0	721.5	715.3	704.7	701.2
52.5°	670.0	658.5	653.3	643.6	640.2
55°	570.9	561.7	557.9	548.5	546.2
57.5°	476.7	470.5	469.4	460.2	459.3
60°	419.3	415.9	415.8	407.6	407.6
62.5°	370.5	367.9	369.8	364.3	363.4
65°	306.6	304.3	307.7	305.4	305.4
67.5°	256.1	256.1	258.2	257.2	257.2
70°	227.9	227.9	229.0	229.0	229.0
72.5°	202.5	201.6	204.6	204.6	203.7
75°	165.6	165.6	165.6	166.8	166.8
77.5°	129.0	129.2	130.1	129.9	129.0
80°	104.5	105.7	105.7	104.5	104.5
82.5°	80.1	81.3	81.3	81.0	80.1
85°	42.3	44.6	47.0	47.0	47.0
87.5°	12.7	17.3	21.6	21.8	20.9
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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CATALOG NUMBER: SQ4-PR1-125U-075D-930-1D-UNV-STD-W-6

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)