

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: P565023

Luminaire Tested: **SQ4-PW1-125U-050D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565023
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-050D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

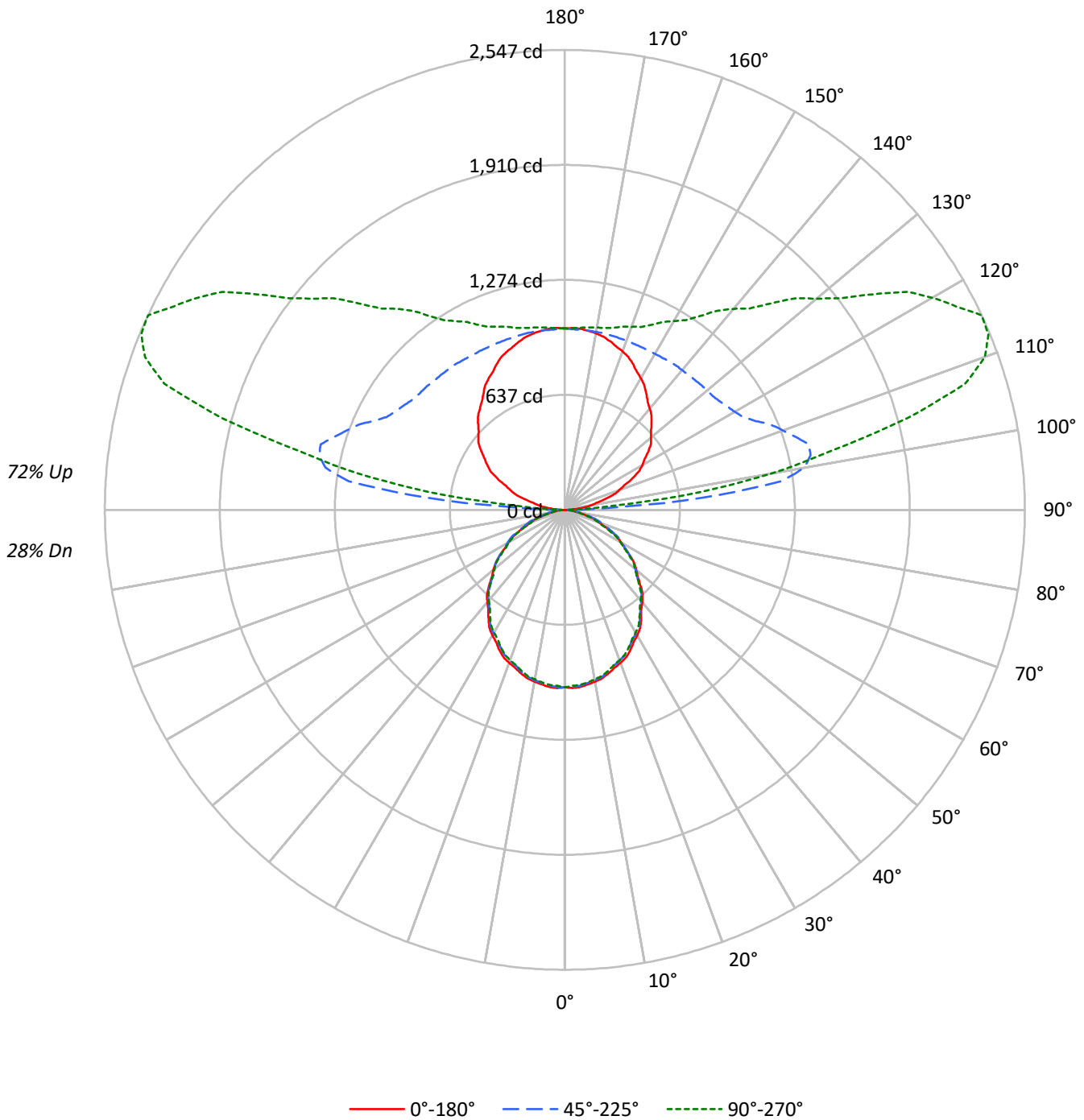
Lumens per Lamp: N/A
Luminaire Lumens: 8985.2 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	79	76	74	62	60	58	46	45	44	32	31	30	24
2	85	77	72	67	75	69	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	41	36	33	31	25	23	22	17
4	70	60	53	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	58	48	41	36	38	33	30	29	25	23	20	18	16	13
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	18	16	14	13	10
8	51	39	31	26	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	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°	6044	6044	6044
5°	6084	6035	6008
10°	6035	5986	5953
15°	5970	5904	5883
20°	5900	5809	5797
25°	5817	5711	5693
30°	5694	5608	5571
35°	5532	5454	5422
40°	5360	5276	5255
45°	5151	5083	5061
50°	4938	4896	4863
55°	4707	4707	4633
60°	4420	4505	4345
65°	4045	4247	3944
70°	3566	3908	3473
75°	3044	3498	2963
80°	2363	2943	2391
85°	1524	2258	2018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.5	1.0
10°-20°	261.2	2.9
20°-30°	387.5	4.3
30°-40°	453.4	5.0
40°-50°	451.4	5.0
50°-60°	389.8	4.3
60°-70°	280.6	3.1
70°-80°	147.1	1.6
80°-90°	38.8	0.4
90°-100°	469.8	5.2
100°-110°	1265.4	14.1
110°-120°	1328.0	14.8
120°-130°	1077.7	12.0
130°-140°	845.2	9.4
140°-150°	648.9	7.2
150°-160°	466.6	5.2
160°-170°	285.0	3.2
170°-180°	96.1	1.1
0°-30°	741.3	8.3
0°-40°	1194.7	13.3
0°-60°	2035.9	22.7
0°-90°	2502.5	27.9
90°-120°	3063.3	34.1
90°-150°	5635.0	62.7
90°-180°	6483.0	72.2
0°-180°	8985.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	985	974	978	975	973	93
15°	938	926	927	926	924	264
25°	857	843	842	836	839	394
35°	737	727	726	720	722	461
45°	592	587	584	583	582	457
55°	439	438	439	433	432	392
65°	278	286	292	280	271	275
75°	128	140	147	137	125	137
85°	22	28	32	30	29	29
90°	3	8	15	17	17	6
95°	72	256	770	394	272	75
105°	234	364	1400	2094	1965	246
115°	413	506	1165	2252	2547	407
125°	564	648	1046	1769	2081	504
135°	679	758	1017	1427	1616	524
145°	786	847	1004	1220	1310	493
155°	892	924	995	1094	1130	410
165°	967	978	999	1039	1044	273
175°	1006	1004	1000	1014	1012	96
180°	1004	1004	1004	1004	1004	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982.7	982.7	982.7	982.7	982.7
2.5°	988.2	980.1	982.7	980.5	975.7
5°	985.3	974.2	977.5	974.8	973.1
7.5°	975.2	965.1	967.4	964.6	963.6
10°	966.2	956.0	958.4	954.9	953.2
12.5°	955.8	945.0	947.3	943.8	942.8
15°	937.6	925.8	927.2	925.5	923.8
17.5°	916.5	904.5	904.7	902.0	901.6
20°	901.3	888.6	887.4	884.0	885.7
22.5°	884.7	871.3	870.1	865.3	867.7
25°	857.1	842.7	841.5	836.4	838.9
27.5°	825.3	811.0	811.1	803.8	806.6
30°	801.7	788.2	789.6	781.0	784.4
32.5°	776.8	764.6	765.3	756.8	760.2
35°	736.8	726.6	726.4	719.5	722.1
37.5°	695.9	686.9	685.5	681.6	682.2
40°	667.5	659.9	657.1	654.5	654.5
42.5°	637.7	630.8	628.0	626.1	625.4
45°	592.2	587.1	584.4	582.6	581.8
47.5°	547.2	542.4	540.1	538.8	538.0
50°	516.0	512.6	511.7	509.1	508.2
52.5°	484.8	482.8	481.9	478.6	477.7
55°	438.9	438.1	438.9	432.9	432.0
57.5°	391.2	392.5	395.3	387.1	385.1
60°	359.3	362.7	366.2	356.6	353.2
62.5°	326.7	332.2	337.1	326.1	321.4
65°	277.9	286.4	291.8	280.3	271.0
67.5°	230.8	241.3	247.8	235.4	224.9
70°	198.3	210.1	217.3	204.9	193.1
72.5°	169.9	183.1	188.9	177.2	165.4
75°	128.1	140.0	147.2	137.4	124.7
77.5°	90.9	102.1	108.0	99.5	89.0
80°	66.7	78.5	83.1	76.0	67.5
82.5°	47.3	57.1	60.3	56.0	50.2
85°	21.6	28.4	32.0	30.3	28.6
87.5°	6.1	11.8	16.2	16.5	17.2
90°	2.6	7.6	15.4	16.6	16.6
92.5°	31.2	110.3	218.0	104.9	72.9
95°	71.6	255.5	770.1	393.8	272.5
97.5°	114.4	292.5	1207.9	1009.1	760.9
100°	147.1	307.2	1347.0	1409.4	1169.2
102.5°	178.8	327.9	1393.1	1709.2	1512.1
105°	234.1	364.2	1399.5	2093.7	1964.9
107.5°	286.3	402.4	1339.9	2291.4	2324.6
110°	321.1	431.2	1285.6	2352.7	2474.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	357.9	460.0	1233.4	2339.1	2538.5
115°	413.2	505.8	1165.4	2251.8	2547.0
117.5°	463.6	550.4	1112.7	2112.3	2441.0
120°	496.3	580.2	1086.1	2012.2	2350.0
122.5°	525.0	607.8	1066.6	1909.9	2246.6
125°	564.1	648.0	1046.4	1768.6	2081.3
127.5°	601.8	684.3	1033.6	1644.0	1923.2
130°	624.3	706.8	1028.5	1572.6	1817.8
132.5°	646.8	728.3	1023.4	1509.8	1734.9
135°	679.3	758.1	1017.0	1426.8	1615.7
137.5°	710.2	785.8	1013.7	1356.5	1511.6
140°	731.7	804.3	1010.6	1313.1	1453.2
142.5°	754.2	821.8	1008.6	1272.7	1390.8
145°	785.5	846.7	1004.2	1219.9	1309.9
147.5°	819.2	872.5	999.9	1175.4	1246.2
150°	841.7	888.0	997.8	1147.5	1206.3
152.5°	862.2	902.5	996.8	1124.8	1172.6
155°	891.6	924.2	995.2	1094.5	1129.6
157.5°	917.5	942.7	995.5	1073.3	1096.8
160°	933.8	955.1	996.5	1060.9	1078.4
162.5°	948.2	965.4	997.6	1050.5	1063.0
165°	967.1	978.4	999.1	1038.9	1043.9
167.5°	982.5	989.0	1000.4	1029.8	1031.8
170°	992.7	995.2	1000.4	1024.7	1024.7
172.5°	998.8	999.3	1001.4	1019.6	1019.6
175°	1005.5	1004.2	1000.4	1014.4	1011.9
177.5°	1008.3	1006.3	1001.1	1009.3	1007.3
180°	1004.2	1004.2	1004.2	1004.2	1004.2

(END OF REPORT)