

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: P520285

Luminaire Tested: **SQ4-F-125U-050D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520285
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-935-1D-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

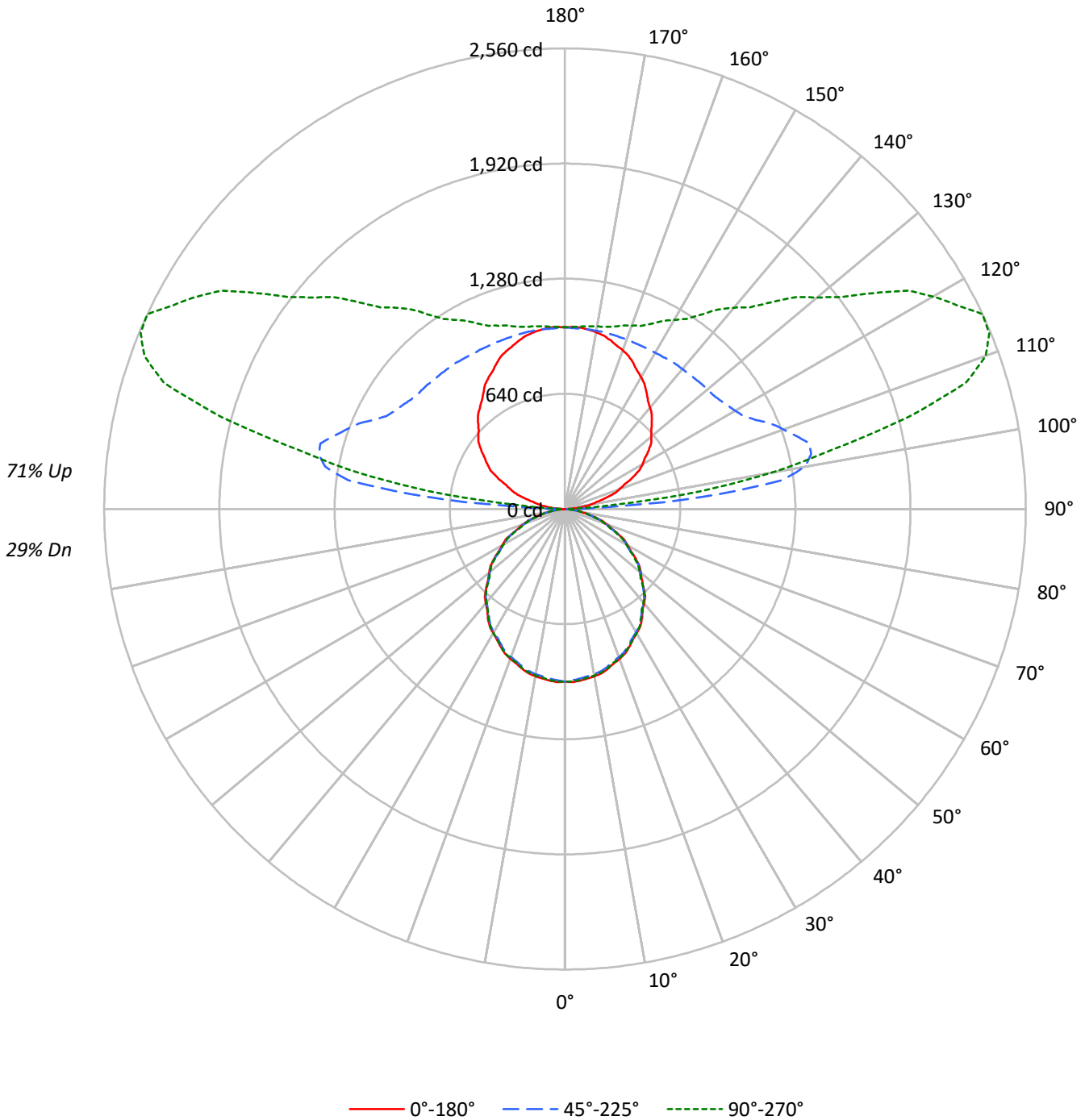
Lumens per Lamp: N/A
Luminaire Lumens: 9138.3 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

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	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°	5905	5905	5905
5°	5919	5848	5896
10°	5900	5827	5867
15°	5860	5786	5835
20°	5805	5737	5779
25°	5739	5670	5722
30°	5659	5614	5651
35°	5597	5529	5558
40°	5490	5438	5449
45°	5377	5332	5332
50°	5263	5214	5189
55°	5140	5071	5043
60°	4948	4869	4837
65°	4713	4619	4564
70°	4390	4298	4206
75°	3940	3817	3726
80°	3184	3138	3050
85°	1905	2181	2265



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.0
10°-20°	257.9	2.8
20°-30°	387.4	4.2
30°-40°	462.5	5.1
40°-50°	473.9	5.2
50°-60°	422.6	4.6
60°-70°	314.7	3.4
70°-80°	170.9	1.9
80°-90°	41.9	0.5
90°-100°	472.2	5.2
100°-110°	1271.9	13.9
110°-120°	1334.8	14.6
120°-130°	1083.2	11.9
130°-140°	849.5	9.3
140°-150°	652.2	7.1
150°-160°	468.9	5.1
160°-170°	286.5	3.1
170°-180°	96.6	1.1
0°-30°	735.9	8.1
0°-40°	1198.4	13.1
0°-60°	2095.0	22.9
0°-90°	2622.5	28.7
90°-120°	3078.9	33.7
90°-150°	5663.8	62.0
90°-180°	6516.0	71.3
0°-180°	9138.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	958	947	956	955	91
15°	920	918	909	916	916	259
25°	846	843	835	840	843	389
35°	745	743	736	736	740	465
45°	618	619	613	612	613	477
55°	479	479	473	469	470	427
65°	324	323	317	314	314	321
75°	166	165	161	158	157	175
85°	27	30	31	32	32	38
90°	3	8	15	17	17	6
95°	72	257	774	396	274	75
105°	235	366	1407	2104	1975	247
115°	415	508	1171	2263	2560	409
125°	567	651	1052	1778	2092	506
135°	683	762	1022	1434	1624	527
145°	790	851	1009	1226	1317	495
155°	896	929	1000	1100	1135	413
165°	972	983	1004	1044	1049	274
175°	1011	1009	1006	1020	1017	96
180°	1009	1009	1009	1009	1009	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.0	960.0	960.0	960.0	960.0
2.5°	963.1	961.1	952.8	960.0	959.0
5°	958.7	957.5	947.2	956.2	954.9
7.5°	951.8	949.3	939.2	947.9	946.6
10°	944.6	942.1	933.0	940.7	939.4
12.5°	935.4	933.8	923.7	931.5	931.2
15°	920.2	917.6	908.7	916.3	916.3
17.5°	900.2	898.6	889.8	897.3	896.2
20°	886.8	884.3	876.5	882.9	882.9
22.5°	870.3	868.8	861.0	866.4	867.5
25°	845.6	843.1	835.4	840.5	843.1
27.5°	818.4	816.4	809.9	813.3	815.1
30°	796.8	796.8	790.4	791.7	795.6
32.5°	777.3	777.3	769.8	771.1	772.9
35°	745.4	742.9	736.4	736.5	740.2
37.5°	708.4	707.1	703.0	702.3	703.3
40°	683.7	682.4	677.3	678.6	678.6
42.5°	659.1	657.8	652.6	650.9	652.9
45°	618.2	619.4	613.0	611.7	613.0
47.5°	577.8	577.8	572.7	569.2	571.1
50°	550.0	550.0	544.9	542.3	542.3
52.5°	521.2	522.3	516.1	512.6	513.5
55°	479.3	479.3	472.9	469.1	470.3
57.5°	433.1	433.1	426.7	422.9	425.1
60°	402.2	402.2	395.8	392.0	393.2
62.5°	371.4	371.4	364.9	361.1	361.4
65°	323.8	322.6	317.4	313.6	313.6
67.5°	278.1	274.8	270.9	265.7	265.7
70°	244.1	243.0	239.0	233.9	233.9
72.5°	213.4	211.1	207.2	203.0	203.0
75°	165.8	164.6	160.6	158.1	156.8
77.5°	118.7	117.7	117.4	113.9	114.9
80°	89.9	89.9	88.6	86.1	86.1
82.5°	64.3	65.3	63.0	62.4	61.4
85°	27.0	29.5	30.9	32.1	32.1
87.5°	5.6	9.7	10.3	11.5	11.5
90°	2.6	7.6	15.4	16.7	16.7
92.5°	31.4	110.8	219.1	105.5	73.3
95°	72.0	256.8	774.1	395.8	273.9
97.5°	115.0	293.9	1214.1	1014.2	764.8
100°	147.9	308.7	1353.9	1416.5	1175.2
102.5°	179.8	329.6	1400.2	1717.9	1519.7
105°	235.3	366.1	1406.7	2104.5	1974.9
107.5°	287.7	404.5	1346.7	2303.1	2336.5
110°	322.8	433.4	1292.2	2364.8	2486.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.8	462.4	1239.7	2351.0	2551.5
115°	415.3	508.4	1171.3	2263.2	2559.9
117.5°	465.9	553.3	1118.3	2123.1	2453.5
120°	498.9	583.1	1091.6	2022.5	2362.0
122.5°	527.7	610.9	1072.1	1919.7	2258.1
125°	567.1	651.2	1051.7	1777.7	2091.9
127.5°	604.9	687.8	1038.9	1652.5	1933.1
130°	627.5	710.4	1033.8	1580.6	1827.1
132.5°	650.0	732.0	1028.7	1517.5	1743.7
135°	682.7	761.9	1022.1	1434.1	1623.9
137.5°	713.9	789.8	1018.9	1363.3	1519.2
140°	735.5	808.4	1015.7	1319.8	1460.6
142.5°	758.1	826.0	1013.7	1279.2	1397.9
145°	789.5	851.0	1009.3	1226.1	1316.7
147.5°	823.4	877.0	1005.0	1181.4	1252.6
150°	846.0	892.6	1002.9	1153.4	1212.5
152.5°	866.6	907.1	1001.9	1130.5	1178.5
155°	896.1	928.9	1000.3	1100.1	1135.3
157.5°	922.2	947.5	1000.6	1078.8	1102.5
160°	938.6	960.0	1001.6	1066.3	1083.9
162.5°	953.0	970.3	1002.6	1055.9	1068.5
165°	972.0	983.4	1004.2	1044.1	1049.2
167.5°	987.5	994.0	1005.5	1035.1	1037.1
170°	997.8	1000.2	1005.5	1029.9	1029.9
172.5°	1003.9	1004.5	1006.5	1024.8	1024.8
175°	1010.6	1009.3	1005.5	1019.6	1017.0
177.5°	1013.5	1011.4	1006.3	1014.4	1012.4
180°	1009.3	1009.3	1009.3	1009.3	1009.3

(END OF REPORT)