

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: P520309

Luminaire Tested: **SQ4-F-125U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520309
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G3-1910-536-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-125U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

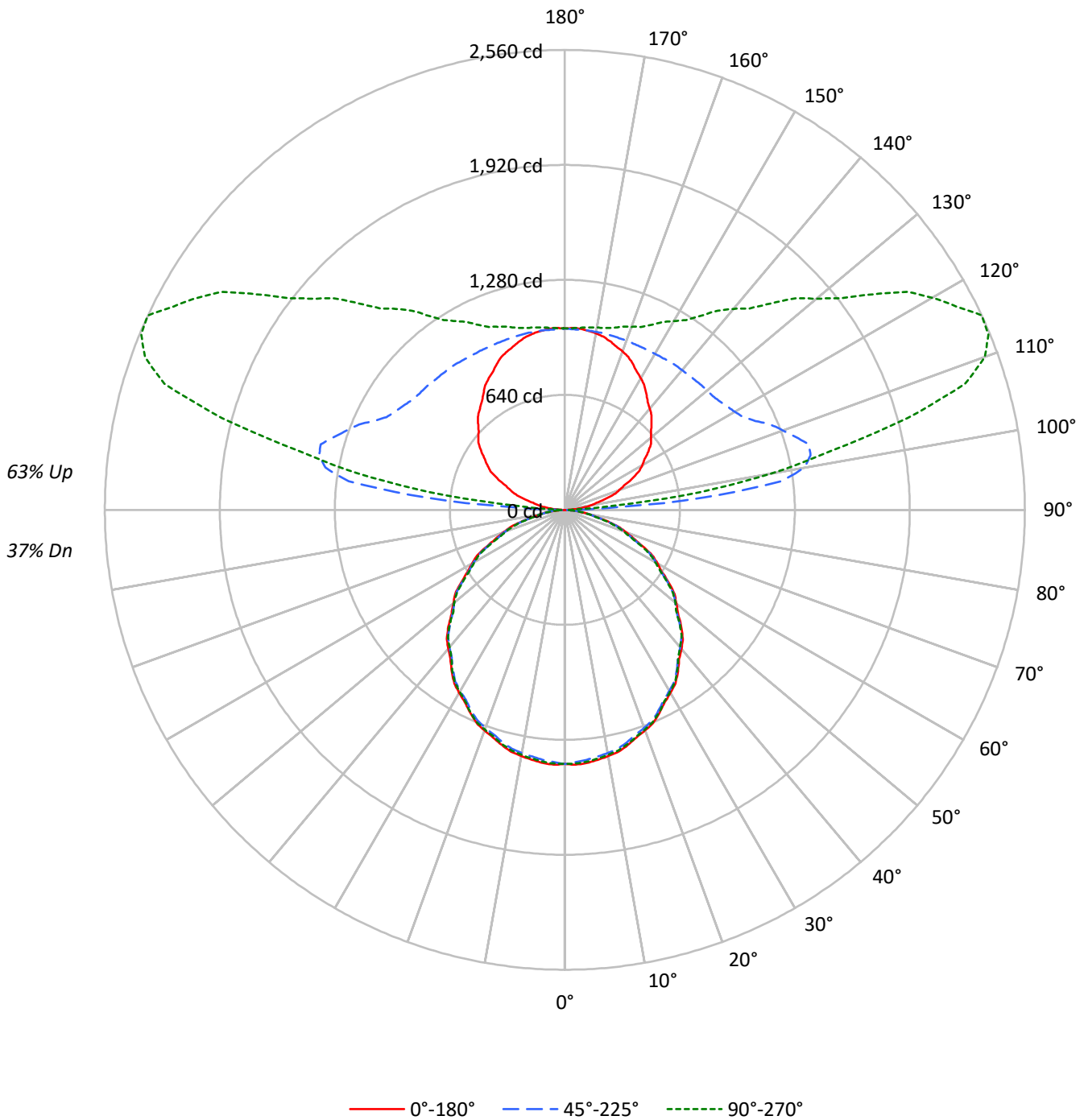
Lumens per Lamp: N/A
Luminaire Lumens: 10380.1 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 87.1
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	60	60	60	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	50	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	56	71	63	57	52	51	47	43	41	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	54	47	41	59	50	43	38	41	35	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	32	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8702	8702	8702
5°	8735	8624	8687
10°	8699	8587	8652
15°	8632	8526	8600
20°	8554	8454	8521
25°	8460	8373	8434
30°	8353	8262	8308
35°	8244	8157	8195
40°	8105	8022	8012
45°	7966	7866	7888
50°	7744	7683	7683
55°	7564	7468	7399
60°	7322	7194	7131
65°	6925	6794	6701
70°	6503	6343	6181
75°	5851	5639	5516
80°	4679	4587	4541
85°	2809	3169	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	1.3
10°-20°	380.1	3.7
20°-30°	571.1	5.5
30°-40°	681.5	6.6
40°-50°	698.9	6.7
50°-60°	622.8	6.0
60°-70°	464.3	4.5
70°-80°	251.8	2.4
80°-90°	60.2	0.6
90°-100°	472.2	4.5
100°-110°	1271.9	12.3
110°-120°	1334.8	12.9
120°-130°	1083.2	10.4
130°-140°	849.5	8.2
140°-150°	652.2	6.3
150°-160°	468.9	4.5
160°-170°	286.5	2.8
170°-180°	96.6	0.9
0°-30°	1084.8	10.5
0°-40°	1766.3	17.0
0°-60°	3087.9	29.7
0°-90°	3864.3	37.2
90°-120°	3078.9	29.7
90°-150°	5663.8	54.6
90°-180°	6516.0	62.8
0°-180°	10380.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1415	1412	1397	1408	1407	134
15°	1356	1353	1339	1349	1350	382
25°	1247	1245	1234	1240	1243	574
35°	1098	1095	1086	1086	1091	686
45°	916	912	904	904	907	705
55°	705	704	696	690	690	630
65°	476	476	467	462	460	474
75°	246	241	237	233	232	259
85°	40	42	45	45	46	55
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°	1414.7	1414.7	1414.7	1414.7	1414.7
2.5°	1419.8	1416.8	1404.5	1414.7	1413.6
5°	1414.7	1412.1	1396.7	1408.2	1407.0
7.5°	1403.2	1400.4	1385.2	1396.7	1396.5
10°	1392.8	1389.1	1374.9	1386.4	1385.2
12.5°	1379.6	1375.7	1361.5	1373.1	1371.9
15°	1355.6	1353.2	1339.0	1349.2	1350.5
17.5°	1328.5	1323.8	1311.1	1321.1	1322.3
20°	1306.9	1303.2	1291.6	1300.5	1301.8
22.5°	1284.4	1280.6	1268.9	1278.0	1279.3
25°	1246.6	1245.4	1233.8	1240.3	1242.8
27.5°	1205.9	1202.3	1193.1	1198.0	1200.5
30°	1176.1	1173.6	1163.3	1167.2	1169.7
32.5°	1145.3	1143.9	1134.5	1136.4	1139.9
35°	1097.9	1095.4	1086.3	1086.4	1091.4
37.5°	1045.3	1042.5	1035.0	1033.8	1035.8
40°	1009.4	1005.6	999.1	997.8	997.8
42.5°	972.4	969.7	961.1	958.9	961.9
45°	915.8	912.0	904.3	904.3	906.8
47.5°	854.5	853.0	843.9	839.9	840.9
50°	809.3	811.9	802.9	797.9	802.9
52.5°	770.3	768.8	760.8	755.8	757.7
55°	705.4	704.2	696.4	690.0	690.0
57.5°	640.2	637.0	629.0	624.2	627.9
60°	595.2	593.9	584.8	576.0	579.7
62.5°	550.0	547.7	538.7	532.9	535.6
65°	475.8	475.8	466.8	461.7	460.4
67.5°	410.9	404.9	399.9	393.7	392.0
70°	361.6	356.6	352.7	347.5	343.7
72.5°	313.4	310.5	304.5	299.4	298.6
75°	246.2	241.2	237.3	233.4	232.1
77.5°	175.2	174.2	170.5	168.6	169.3
80°	132.1	132.1	129.5	129.5	128.2
82.5°	93.1	94.1	93.6	91.6	91.3
85°	39.8	42.3	44.9	44.9	46.2
87.5°	7.7	13.7	14.4	14.7	14.7
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)