

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: P520213

Luminaire Tested: **SQ4-F-100U-075D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520213
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-075D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

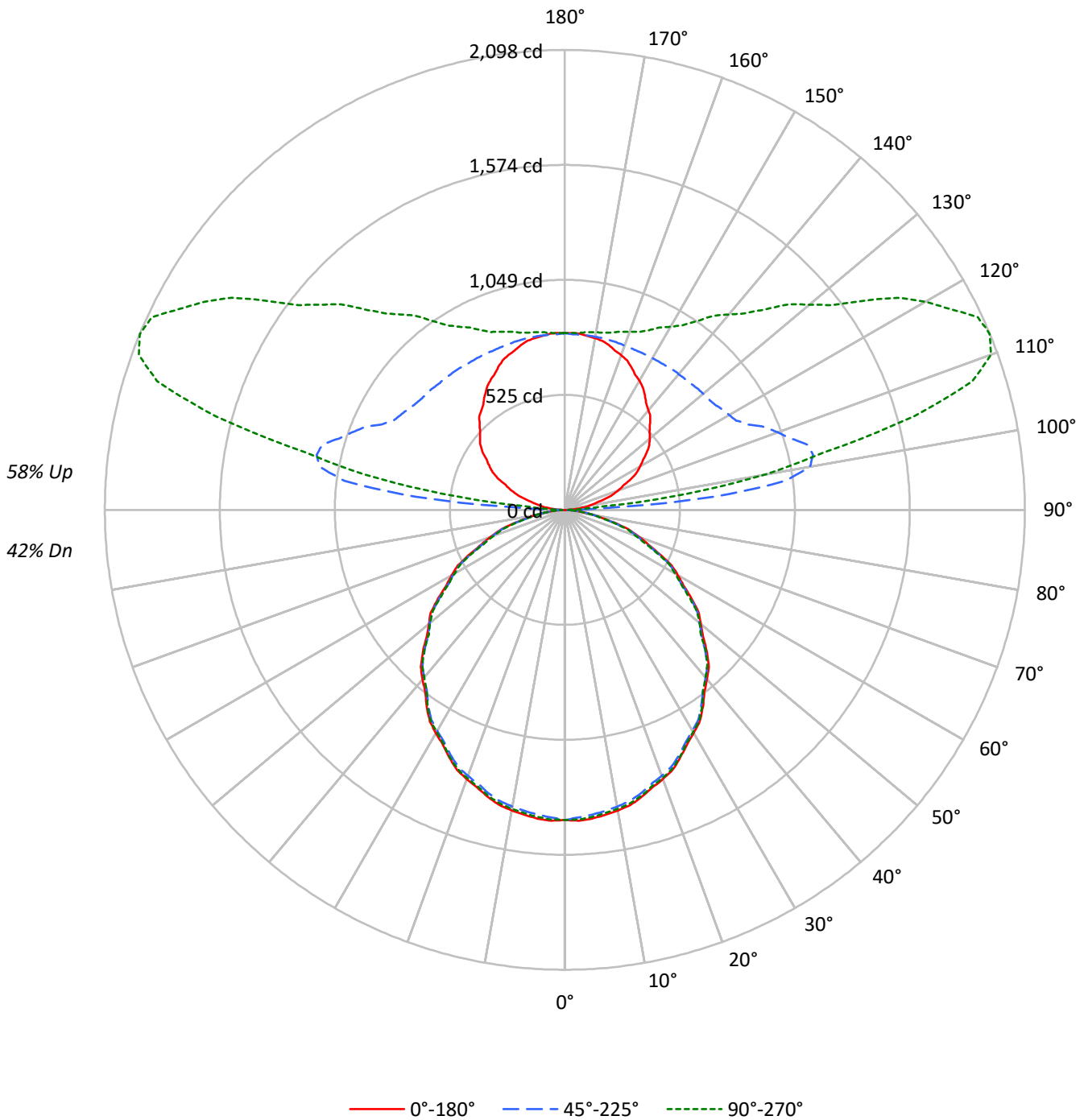
Lumens per Lamp: N/A
Luminaire Lumens: 9098.2 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 76.5
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	42				42
1	96	92	88	84	88	84	81	78	69	67	65	56	54	53	43	42	42	36				36
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30				30
3	80	70	63	57	72	64	58	53	53	49	45	43	40	37	34	31	30	25				25
4	73	62	54	48	66	57	50	45	47	42	38	38	35	32	30	28	25	22				22
5	67	55	47	41	61	51	44	38	42	37	33	34	30	27	27	24	22	19				19
6	61	49	41	36	56	45	38	33	38	33	29	31	27	24	24	22	19	16				16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14				14
8	53	40	33	27	48	37	30	26	31	26	22	26	22	19	20	18	15	13				13
9	49	37	29	24	45	34	27	23	29	23	20	24	20	17	19	16	14	12				12
10	46	34	27	22	42	31	25	20	26	21	18	22	18	15	17	15	12	10				10

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	1.5
10°-20°	380.1	4.2
20°-30°	571.1	6.3
30°-40°	681.5	7.5
40°-50°	698.9	7.7
50°-60°	622.8	6.8
60°-70°	464.3	5.1
70°-80°	251.8	2.8
80°-90°	59.5	0.7
90°-100°	377.3	4.1
100°-110°	1041.6	11.4
110°-120°	1074.2	11.8
120°-130°	863.2	9.5
130°-140°	678.4	7.5
140°-150°	520.3	5.7
150°-160°	373.9	4.1
160°-170°	228.7	2.5
170°-180°	77.1	0.8
0°-30°	1084.8	11.9
0°-40°	1766.3	19.4
0°-60°	3087.9	33.9
0°-90°	3863.6	42.5
90°-120°	2493.0	27.4
90°-150°	4554.9	50.1
90°-180°	5235.0	57.5
0°-180°	9098.2	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	5	10	12	13	5
95°	55	204	684	281	183	59
105°	186	286	1146	1749	1647	197
115°	333	402	923	1827	2078	327
125°	456	519	837	1416	1662	406
135°	549	608	813	1147	1293	425
145°	637	681	803	976	1050	399
155°	718	742	797	876	904	331
165°	777	787	800	832	838	219
175°	806	807	802	813	811	77
180°	806	806	806	806	806	

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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	13.2	13.4	13.6	13.9
90°	2.6	5.1	10.3	11.7	12.9
92.5°	23.2	96.3	172.2	62.8	49.0
95°	55.4	204.2	684.4	281.3	183.0
97.5°	91.8	228.6	1013.9	780.6	565.3
100°	118.6	243.3	1135.6	1143.6	929.4
102.5°	144.3	260.1	1159.4	1413.1	1209.9
105°	185.6	286.5	1145.9	1749.4	1647.3
107.5°	229.4	319.2	1082.0	1911.7	1949.0
110°	260.4	341.1	1032.5	1946.6	2067.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.3	365.9	986.2	1919.0	2097.5
115°	332.6	401.9	922.9	1827.1	2078.0
117.5°	371.3	440.3	881.4	1697.7	1983.0
120°	397.0	465.0	865.0	1610.1	1897.4
122.5°	421.8	486.8	851.5	1528.2	1800.5
125°	456.3	519.3	836.6	1415.8	1661.6
127.5°	485.7	548.7	827.8	1320.6	1532.7
130°	505.3	568.3	823.7	1262.4	1455.3
132.5°	523.9	583.8	819.6	1213.6	1388.3
135°	549.1	608.4	813.3	1146.7	1292.9
137.5°	577.5	631.4	810.3	1090.5	1215.3
140°	592.9	645.9	808.2	1053.0	1162.7
142.5°	610.4	659.4	806.1	1019.8	1116.3
145°	636.8	680.9	803.0	976.2	1050.5
147.5°	662.1	700.6	800.2	939.5	997.2
150°	680.6	712.1	799.2	917.6	964.2
152.5°	695.0	724.5	798.2	898.8	937.4
155°	718.0	741.9	796.6	875.9	903.7
157.5°	739.1	757.5	796.9	859.1	878.1
160°	751.5	767.9	797.9	849.7	863.7
162.5°	761.8	776.1	798.9	841.4	852.3
165°	777.3	787.3	800.5	831.5	837.9
167.5°	789.1	795.2	801.8	825.5	827.6
170°	795.3	800.4	801.8	822.4	822.4
172.5°	800.5	803.5	801.8	818.3	817.2
175°	805.6	806.9	801.8	813.3	810.8
177.5°	807.7	806.7	801.6	808.7	806.7
180°	805.6	805.6	805.6	805.6	805.6

(END OF REPORT)