

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: P520261

Luminaire Tested: **SQ4-F-100U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520261
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-100U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

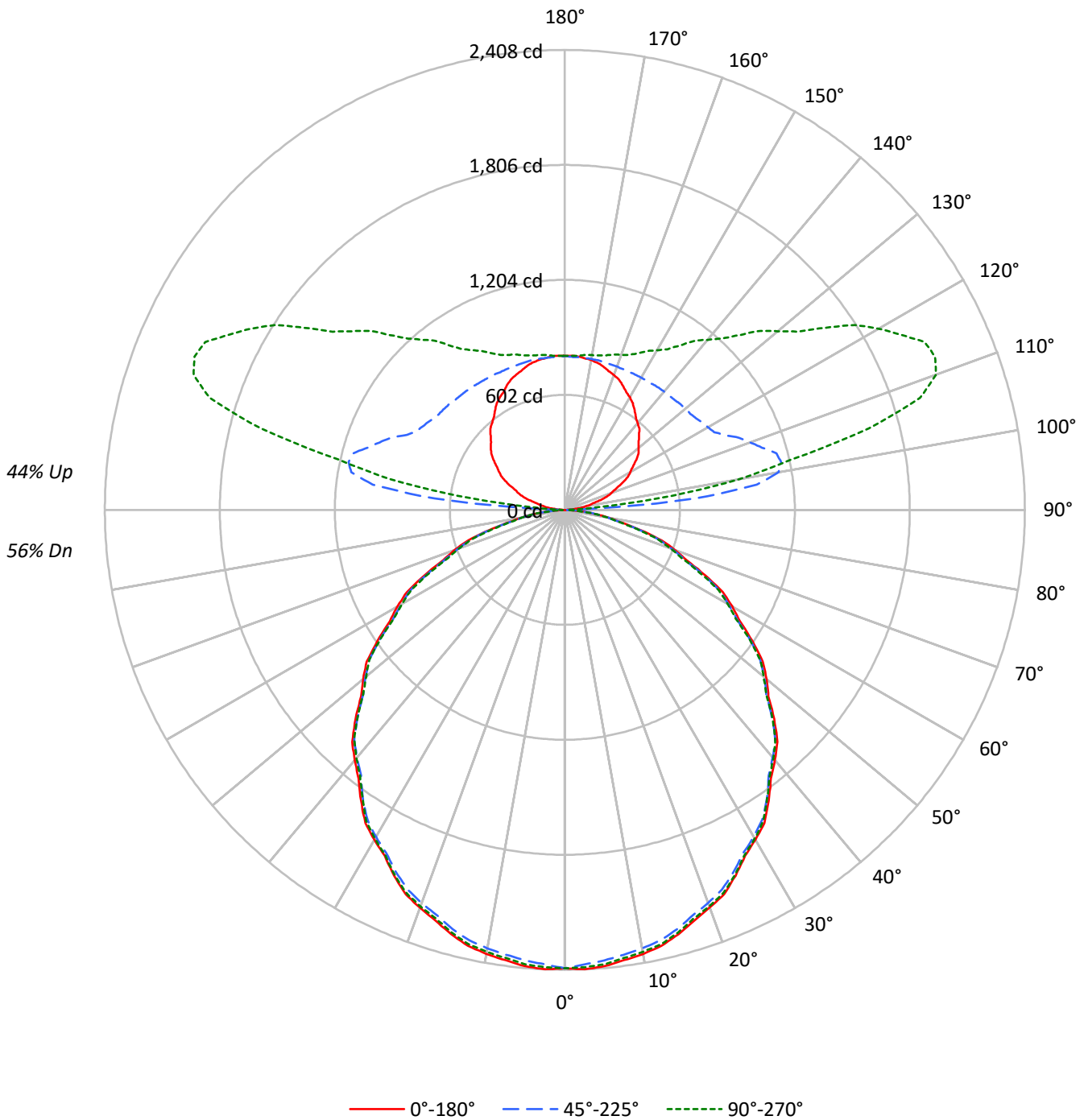
Lumens per Lamp: N/A
Luminaire Lumens: 11784.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 104
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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	56
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52	47
2	90	83	76	71	83	77	71	67	66	62	59	57	54	51	48	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	53	46	40	46	41	36	40	35	32	34	30	28	24
6	63	51	43	37	59	48	41	35	42	36	31	36	31	28	31	27	24	21
7	59	46	38	32	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	54	42	34	29	50	39	32	27	34	29	25	30	25	22	26	22	19	17
9	51	38	31	26	47	36	29	24	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14763	14763	14763
5°	14812	14624	14746
10°	14744	14562	14677
15°	14645	14468	14586
20°	14509	14344	14457
25°	14344	14192	14308
30°	14166	14045	14119
35°	13966	13847	13857
40°	13735	13587	13629
45°	13478	13329	13352
50°	13184	13032	12994
55°	12848	12665	12636
60°	12432	12155	12090
65°	11784	11536	11381
70°	10974	10690	10547
75°	9763	9544	9261
80°	7956	7722	7672
85°	4757	5406	5406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.5	1.9
10°-20°	645.0	5.5
20°-30°	969.0	8.2
30°-40°	1156.2	9.8
40°-50°	1185.2	10.1
50°-60°	1056.4	9.0
60°-70°	786.4	6.7
70°-80°	426.0	3.6
80°-90°	99.5	0.8
90°-100°	377.3	3.2
100°-110°	1041.6	8.8
110°-120°	1074.2	9.1
120°-130°	863.2	7.3
130°-140°	678.4	5.8
140°-150°	520.3	4.4
150°-160°	373.9	3.2
160°-170°	228.7	1.9
170°-180°	77.1	0.7
0°-30°	1840.4	15.6
0°-40°	2996.7	25.4
0°-60°	5238.2	44.4
0°-90°	6550.1	55.6
90°-120°	2493.0	21.2
90°-150°	4554.9	38.7
90°-180°	5235.0	44.4
0°-180°	11784.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2400	2400	2400	2400	2400	
5°	2399	2395	2368	2390	2388	228
15°	2300	2295	2272	2292	2291	648
25°	2114	2110	2091	2103	2108	973
35°	1860	1859	1844	1844	1845	1163
45°	1550	1546	1532	1530	1535	1194
55°	1198	1194	1181	1172	1178	1070
65°	810	804	793	787	782	802
75°	411	411	402	394	390	436
85°	67	76	77	78	77	93
90°	3	5	10	12	13	6
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°	2400.2	2400.2	2400.2	2400.2	2400.2
2.5°	2407.6	2403.5	2382.2	2400.1	2397.0
5°	2398.9	2394.9	2368.5	2389.6	2388.3
7.5°	2378.5	2373.6	2349.4	2369.2	2366.9
10°	2360.6	2356.6	2331.5	2351.3	2349.9
12.5°	2338.4	2334.4	2309.3	2329.1	2328.9
15°	2299.8	2294.6	2272.0	2291.9	2290.6
17.5°	2253.6	2247.6	2225.3	2240.9	2243.5
20°	2216.6	2212.7	2191.4	2206.0	2208.7
22.5°	2178.6	2173.6	2151.3	2168.0	2170.5
25°	2113.5	2109.6	2091.1	2103.0	2108.2
27.5°	2042.2	2042.2	2025.0	2033.5	2036.7
30°	1994.6	1994.6	1977.5	1982.8	1988.0
32.5°	1943.9	1939.8	1923.6	1927.9	1933.1
35°	1859.9	1858.6	1844.1	1844.1	1845.4
37.5°	1772.9	1769.4	1753.5	1754.6	1760.8
40°	1710.6	1708.1	1692.2	1692.3	1697.4
42.5°	1647.3	1644.6	1630.9	1628.8	1630.9
45°	1549.5	1545.6	1532.3	1529.8	1535.0
47.5°	1445.4	1446.4	1430.6	1426.9	1429.8
50°	1377.8	1377.8	1361.9	1354.1	1357.9
52.5°	1306.9	1304.9	1289.0	1280.2	1289.3
55°	1198.1	1194.2	1181.0	1171.8	1178.3
57.5°	1086.6	1080.7	1067.3	1057.4	1061.0
60°	1010.6	1001.5	988.1	980.2	982.8
62.5°	931.3	926.4	912.0	900.0	905.7
65°	809.7	804.5	792.6	787.2	782.0
67.5°	690.6	687.3	673.7	668.1	664.7
70°	610.2	603.9	594.4	587.8	586.5
72.5°	532.1	524.6	515.2	509.6	506.2
75°	410.8	410.8	401.6	393.5	389.7
77.5°	295.3	296.4	288.8	286.1	284.3
80°	224.6	224.6	218.0	215.4	216.6
82.5°	156.9	160.0	157.7	154.0	152.1
85°	67.4	76.4	76.6	77.9	76.6
87.5°	12.2	19.9	22.2	20.3	18.4
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)