

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: P519877

Luminaire Tested: **SQ4-F-025U-125D-935-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519877
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

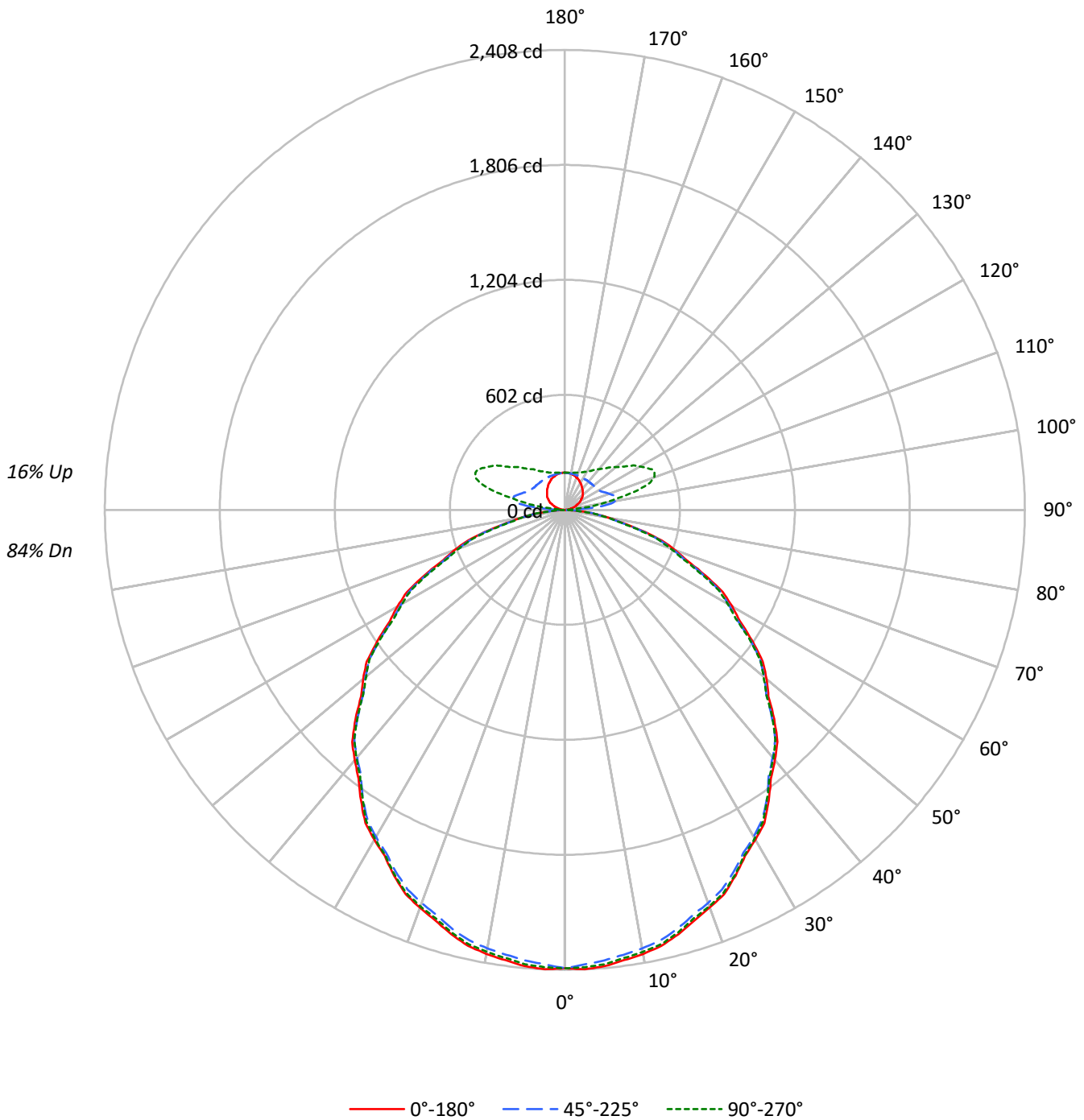
Lumens per Lamp: N/A
Luminaire Lumens: 7808.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.8
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			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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21

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	2.9
10°-20°	645.0	8.3
20°-30°	969.0	12.4
30°-40°	1156.2	14.8
40°-50°	1185.2	15.2
50°-60°	1056.4	13.5
60°-70°	786.4	10.1
70°-80°	426.0	5.5
80°-90°	98.9	1.3
90°-100°	94.7	1.2
100°-110°	248.8	3.2
110°-120°	258.1	3.3
120°-130°	207.0	2.7
130°-140°	162.4	2.1
140°-150°	124.6	1.6
150°-160°	89.8	1.1
160°-170°	54.9	0.7
170°-180°	18.6	0.2
0°-30°	1840.4	23.6
0°-40°	2996.7	38.4
0°-60°	5238.2	67.1
0°-90°	6549.5	83.9
90°-120°	601.5	7.7
90°-150°	1095.6	14.0
90°-180°	1259.0	16.1
0°-180°	7808.3	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°	1	4	10	5	5	3
95°	12	49	163	84	57	14
105°	45	68	275	418	390	47
115°	80	97	220	440	502	79
125°	111	124	200	339	400	98
135°	132	145	194	274	310	102
145°	153	163	192	233	252	96
155°	173	178	192	211	217	80
165°	187	189	192	199	202	53
175°	194	194	193	196	196	18
180°	194	194	194	194	194	



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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°	11.9	19.7	22.2	19.0	16.9
90°	1.2	3.6	9.9	5.0	5.0
92.5°	5.3	25.2	55.8	24.7	16.0
95°	12.4	48.9	163.1	84.0	57.3
97.5°	21.7	53.8	244.0	194.0	142.9
100°	28.7	57.8	269.0	272.5	211.6
102.5°	34.6	61.8	275.9	339.4	287.3
105°	44.8	68.0	275.2	417.7	389.7
107.5°	55.2	76.7	259.5	458.3	465.1
110°	62.2	81.7	246.5	468.8	498.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.2	87.7	234.6	462.2	507.0
115°	79.7	96.7	220.4	439.7	501.7
117.5°	89.9	105.4	210.7	408.4	477.4
120°	95.9	110.5	206.7	387.5	454.4
122.5°	101.8	116.4	203.7	366.6	432.5
125°	110.8	124.2	200.4	338.8	399.6
127.5°	118.0	131.6	197.7	316.4	367.8
130°	122.1	136.6	196.7	302.3	349.8
132.5°	126.0	140.6	195.8	290.3	332.9
135°	132.0	145.4	194.2	273.5	310.0
137.5°	138.2	151.3	193.9	260.9	290.9
140°	143.2	155.3	193.0	250.9	278.9
142.5°	147.2	158.4	193.0	243.8	267.9
145°	153.1	162.9	191.7	233.2	251.5
147.5°	159.2	168.6	191.7	224.4	239.5
150°	163.1	171.7	191.7	219.4	231.6
152.5°	167.1	173.7	191.7	215.4	224.6
155°	173.1	178.0	191.7	210.6	216.6
157.5°	177.5	182.2	191.7	206.3	210.7
160°	180.6	184.2	191.7	204.3	206.7
162.5°	183.5	186.2	191.7	202.3	204.6
165°	186.8	189.2	191.7	199.3	201.7
167.5°	189.7	191.0	193.0	198.0	198.9
170°	191.7	193.0	193.0	198.0	198.0
172.5°	192.7	193.0	193.0	196.9	196.0
175°	194.2	194.2	193.0	195.5	195.5
177.5°	194.2	194.2	193.3	195.2	194.2
180°	194.2	194.2	194.2	194.2	194.2

(END OF REPORT)