

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: P519973

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519973
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-125D-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9146.1 lumens
Efficiency: N/A
Efficacy: 109.1 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

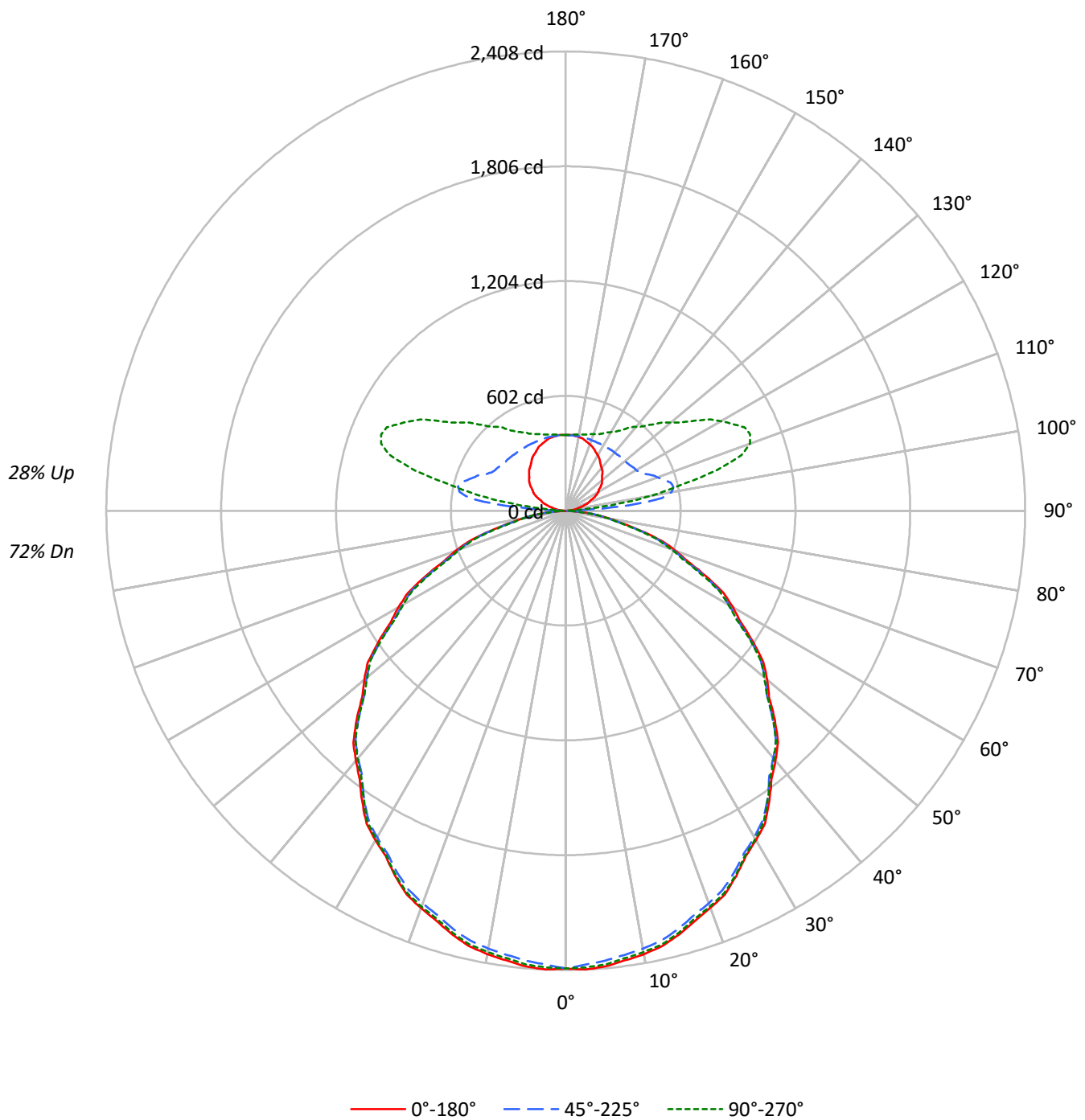
Input Watts (W): 83.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	103	98	94	90	97	93	90	86	84	81	78	75	73	71	67	66	64
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54
3	85	75	68	61	80	72	65	59	65	59	54	58	54	50	52	49	46
4	78	67	58	52	73	63	56	50	57	51	46	52	47	43	47	43	39
5	72	59	51	45	67	57	49	43	51	45	40	46	41	37	42	38	34
6	66	53	45	39	62	51	43	37	46	40	35	42	37	32	38	34	30
7	61	48	40	34	58	46	38	33	42	36	31	38	33	29	35	30	27
8	57	44	36	30	54	42	34	29	38	32	27	35	30	26	32	27	24
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	22
10	49	37	29	24	47	35	28	24	33	26	22	30	25	21	27	23	20

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	2.5
10°-20°	645.0	7.1
20°-30°	969.0	10.6
30°-40°	1156.2	12.6
40°-50°	1185.2	13.0
50°-60°	1056.4	11.5
60°-70°	786.4	8.6
70°-80°	426.0	4.7
80°-90°	99.3	1.1
90°-100°	190.9	2.1
100°-110°	518.5	5.7
110°-120°	533.1	5.8
120°-130°	426.2	4.7
130°-140°	334.9	3.7
140°-150°	256.8	2.8
150°-160°	184.7	2.0
160°-170°	112.9	1.2
170°-180°	38.1	0.4
0°-30°	1840.4	20.1
0°-40°	2996.7	32.8
0°-60°	5238.2	57.3
0°-90°	6549.9	71.6
90°-120°	1242.5	13.6
90°-150°	2260.4	24.7
90°-180°	2596.0	28.4
0°-180°	9146.1	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	5	9	12	12	4
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	401	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

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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	19.9	21.9	20.3	18.2
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.2	104.4	332.5	144.6	97.1
97.5°	46.5	115.3	509.6	396.4	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.0	129.8	578.2	706.8	609.9
105°	92.0	143.3	570.2	868.2	816.9
107.5°	113.8	159.1	537.3	951.6	965.8
110°	129.1	170.4	512.7	967.9	1029.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.6	488.1	954.3	1046.5
115°	163.7	198.6	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.8	229.4	427.1	798.5	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	412.9	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.6
130°	249.3	279.3	406.5	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.1	401.4	566.8	639.2
137.5°	284.6	311.9	399.9	537.5	598.6
140°	292.8	319.0	398.9	519.0	574.1
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.1	346.3	395.1	463.5	492.0
150°	336.3	352.5	395.1	453.1	475.6
152.5°	343.5	357.7	394.1	443.8	462.3
155°	354.1	366.6	393.8	432.5	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.7	379.6	393.8	419.5	427.1
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	412.9
167.5°	390.5	393.0	396.3	407.3	408.3
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.6	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)