

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: P523689

Luminaire Tested: **SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523689
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5430.4 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

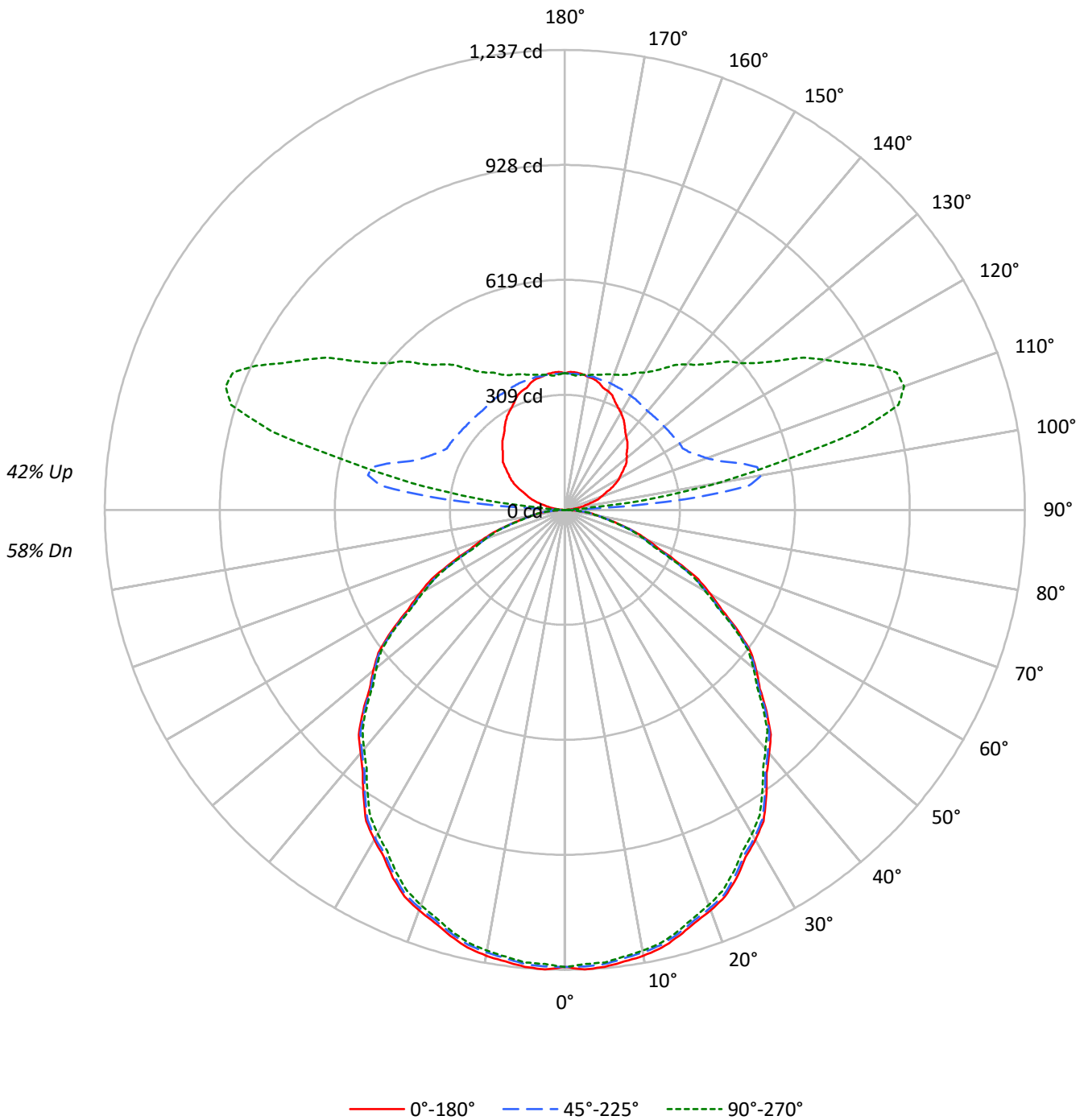
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	96	92	88	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	91	84	78	72	85	78	73	68	68	64	61	59	56	53	50	48	46	42
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	44	42	39	35
4	76	65	57	51	71	61	54	49	54	48	44	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	65	52	44	38	60	49	42	37	43	37	33	38	33	30	33	29	26	23
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	41	33	29	36	30	26	31	27	23	27	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11344	11344	11344
5°	11427	11357	11317
10°	11408	11327	11277
15°	11332	11270	11209
20°	11257	11194	11109
25°	11124	11046	10936
30°	10918	10860	10723
35°	10632	10559	10425
40°	10292	10227	10110
45°	10010	9940	9842
50°	9651	9590	9496
55°	9153	9030	8961
60°	8331	8093	8053
65°	7340	7034	7010
70°	6337	6075	6075
75°	5454	5379	5301
80°	4808	4867	4750
85°	3769	4107	4107



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	2.1
10°-20°	332.0	6.1
20°-30°	497.2	9.2
30°-40°	583.2	10.7
40°-50°	585.1	10.8
50°-60°	499.1	9.2
60°-70°	325.5	6.0
70°-80°	163.3	3.0
80°-90°	45.2	0.8
90°-100°	167.5	3.1
100°-110°	476.6	8.8
110°-120°	456.7	8.4
120°-130°	361.4	6.7
130°-140°	290.1	5.3
140°-150°	227.1	4.2
150°-160°	166.2	3.1
160°-170°	102.9	1.9
170°-180°	34.9	0.6
0°-30°	945.5	17.4
0°-40°	1528.7	28.2
0°-60°	2612.9	48.1
0°-90°	3146.9	57.9
90°-120°	1100.8	20.3
90°-150°	1979.5	36.5
90°-180°	2283.0	42.0
0°-180°	5430.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1234	1222	1226	1222	1222	117
15°	1186	1175	1180	1176	1174	335
25°	1093	1080	1085	1075	1074	502
35°	944	934	938	927	926	590
45°	767	762	762	754	754	591
55°	569	567	561	558	557	506
65°	336	330	322	320	321	336
75°	153	153	151	150	149	166
85°	36	39	39	39	39	42
90°	0	0	0	0	0	2
95°	18	72	324	112	69	21
105°	74	112	486	858	816	78
115°	138	166	368	780	916	136
125°	194	216	352	583	698	174
135°	238	257	347	493	557	183
145°	280	295	350	426	465	175
155°	320	328	358	385	401	148
165°	354	355	363	370	376	99
175°	370	368	367	365	362	35
180°	368	368	368	368	368	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1237.3	1227.2	1229.5	1227.7	1222.6
5°	1233.8	1222.2	1226.3	1222.0	1222.0
7.5°	1225.4	1212.8	1216.8	1212.5	1212.3
10°	1217.7	1205.0	1209.0	1204.7	1203.7
12.5°	1206.5	1193.8	1198.7	1193.5	1193.3
15°	1186.4	1174.8	1179.9	1175.6	1173.5
17.5°	1163.8	1151.1	1157.3	1151.3	1150.4
20°	1146.5	1133.9	1140.1	1131.5	1131.5
22.5°	1125.8	1113.2	1120.2	1109.0	1109.0
25°	1092.7	1080.0	1085.1	1075.4	1074.3
27.5°	1053.2	1040.8	1046.1	1035.1	1034.9
30°	1024.8	1013.2	1019.4	1007.5	1006.5
32.5°	993.7	983.0	987.5	975.6	974.6
35°	944.0	934.5	937.5	926.7	925.6
37.5°	891.6	881.9	885.3	876.1	875.6
40°	854.5	848.2	849.1	841.5	839.4
42.5°	820.0	812.9	813.8	806.2	805.8
45°	767.2	762.0	761.8	754.3	754.3
47.5°	711.2	707.2	706.0	699.8	699.6
50°	672.4	669.2	668.1	662.7	661.6
52.5°	631.9	630.4	626.7	622.2	622.0
55°	569.0	566.9	561.4	558.2	557.1
57.5°	500.6	496.4	490.3	485.6	486.4
60°	451.5	447.3	438.6	436.4	436.4
62.5°	404.1	399.0	390.3	387.3	389.0
65°	336.2	329.9	322.2	320.1	321.1
67.5°	274.6	268.9	260.6	260.5	259.7
70°	234.9	231.8	225.2	225.2	225.2
72.5°	199.6	198.1	193.3	193.3	192.5
75°	153.0	153.0	150.9	149.8	148.7
77.5°	114.7	115.1	114.0	112.9	111.0
80°	90.5	92.6	91.6	90.5	89.4
82.5°	68.1	70.2	70.0	68.1	67.9
85°	35.6	38.7	38.8	38.8	38.8
87.5°	9.5	12.9	13.8	13.8	14.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.6	29.6	68.8	20.0	15.1
95°	18.2	72.2	324.3	112.2	69.2
97.5°	33.4	84.5	499.4	357.4	244.9
100°	44.0	91.9	537.4	544.4	419.3
102.5°	55.8	99.8	529.1	696.8	587.6
105°	74.1	112.3	485.7	858.0	815.6
107.5°	92.7	127.0	435.1	903.4	941.1
110°	105.5	137.6	406.1	886.0	970.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	117.8	148.3	386.5	844.9	965.7
115°	137.7	166.4	368.3	780.3	916.2
117.5°	155.2	182.1	357.6	709.6	853.6
120°	169.1	191.7	356.4	669.2	807.2
122.5°	180.3	202.9	353.6	633.7	761.9
125°	194.3	215.5	351.5	583.4	697.5
127.5°	209.5	229.3	350.4	553.3	647.3
130°	217.4	237.2	348.7	532.3	614.3
132.5°	225.7	245.0	348.7	516.0	591.4
135°	237.6	257.4	347.3	492.8	557.0
137.5°	248.8	268.1	347.2	473.1	528.6
140°	257.2	277.0	346.6	456.9	510.2
142.5°	266.7	283.2	348.3	443.9	491.7
145°	280.3	294.6	350.1	426.5	464.8
147.5°	291.9	305.8	353.2	408.9	442.0
150°	301.9	311.5	354.3	403.1	426.3
152.5°	309.7	319.9	355.5	395.2	416.8
155°	320.1	327.6	358.5	385.4	401.2
157.5°	332.9	337.5	359.2	381.0	392.2
160°	339.7	343.1	362.0	377.6	387.2
162.5°	343.6	347.5	362.6	374.8	382.2
165°	353.6	355.0	362.7	370.5	376.0
167.5°	360.5	359.3	365.9	369.5	371.7
170°	362.7	362.0	364.8	365.6	368.3
172.5°	367.8	365.4	366.5	364.4	366.6
175°	370.4	368.4	366.9	364.8	362.0
177.5°	371.5	368.2	366.5	364.3	364.8
180°	367.6	367.6	367.6	367.6	367.6

(END OF REPORT)