

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: P562211

Luminaire Tested: **SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562211
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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

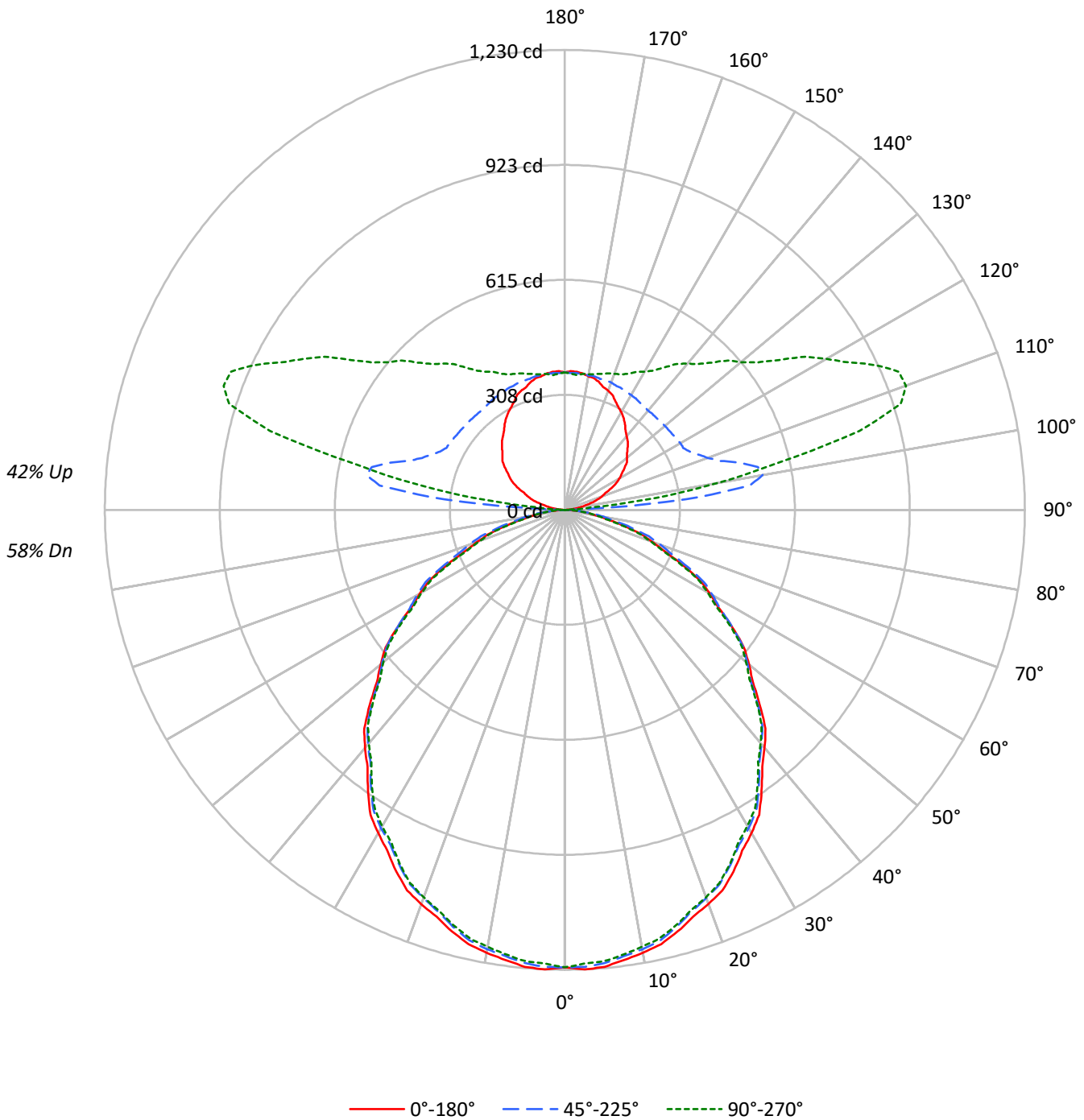
Lumens per Lamp: N/A
Luminaire Lumens: 5396.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	64	60	58	55	52	49	47	45	41
3	83	73	66	60	77	69	62	57	60	55	51	52	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	54	47	42	48	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	33	29	32	28	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23	20
8	55	43	35	30	51	40	33	28	36	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11286	11286	11286
5°	11360	11270	11220
10°	11269	11179	11118
15°	11150	11026	10984
20°	11016	10847	10826
25°	10863	10666	10632
30°	10633	10472	10403
35°	10331	10185	10124
40°	10009	9853	9813
45°	9619	9492	9451
50°	9221	9143	9081
55°	8791	8791	8651
60°	8254	8412	8115
65°	7554	7929	7366
70°	6658	7297	6485
75°	5686	6531	5532
80°	4410	5499	4468
85°	2848	4224	3769



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	2.1
10°-20°	325.2	6.0
20°-30°	482.4	8.9
30°-40°	564.5	10.5
40°-50°	562.0	10.4
50°-60°	485.3	9.0
60°-70°	349.3	6.5
70°-80°	183.2	3.4
80°-90°	45.4	0.8
90°-100°	167.5	3.1
100°-110°	476.6	8.8
110°-120°	456.7	8.5
120°-130°	361.4	6.7
130°-140°	290.1	5.4
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°	922.9	17.1
0°-40°	1487.3	27.6
0°-60°	2534.6	47.0
0°-90°	3112.5	57.7
90°-120°	1100.8	20.4
90°-150°	1979.5	36.7
90°-180°	2283.0	42.3
0°-180°	5396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1227	1213	1217	1214	1212	116
15°	1167	1152	1154	1152	1150	329
25°	1067	1049	1048	1041	1044	491
35°	917	905	904	896	899	573
45°	737	731	728	725	724	569
55°	546	545	546	539	538	488
65°	346	356	363	349	337	343
75°	160	174	183	171	155	171
85°	27	35	40	38	36	36
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°	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1230.2	1220.1	1223.3	1220.6	1214.7
5°	1226.6	1212.9	1216.9	1213.6	1211.5
7.5°	1214.1	1201.4	1204.4	1200.9	1199.6
10°	1202.9	1190.2	1193.2	1188.8	1186.7
12.5°	1189.9	1176.4	1179.4	1175.0	1173.8
15°	1167.3	1152.5	1154.4	1152.2	1150.0
17.5°	1141.0	1126.0	1126.3	1122.9	1122.5
20°	1122.0	1106.2	1104.8	1100.5	1102.6
22.5°	1101.3	1084.7	1083.2	1077.3	1080.2
25°	1067.1	1049.1	1047.7	1041.3	1044.4
27.5°	1027.4	1009.7	1009.7	1000.7	1004.1
30°	998.1	981.2	983.0	972.3	976.5
32.5°	967.0	951.9	952.8	942.1	946.3
35°	917.2	904.6	904.3	895.7	898.9
37.5°	866.4	855.2	853.4	848.5	849.3
40°	831.0	821.5	818.1	814.8	814.8
42.5°	793.9	785.3	781.9	779.5	778.6
45°	737.2	730.9	727.5	725.4	724.3
47.5°	681.2	675.3	672.4	670.8	669.8
50°	642.4	638.2	637.0	633.7	632.7
52.5°	603.6	601.1	599.9	595.8	594.7
55°	546.5	545.4	546.5	538.9	537.8
57.5°	487.0	488.6	492.1	481.9	479.4
60°	447.3	451.5	455.9	444.0	439.8
62.5°	406.8	413.5	419.7	406.0	400.1
65°	346.0	356.5	363.2	349.0	337.4
67.5°	287.3	300.4	308.5	293.1	280.0
70°	246.8	261.6	270.5	255.1	240.4
72.5°	211.5	227.9	235.2	220.6	205.9
75°	159.5	174.3	183.2	171.0	155.2
77.5°	113.2	127.1	134.5	123.9	110.8
80°	83.0	97.7	103.5	94.6	84.1
82.5°	58.8	71.1	75.0	69.7	62.5
85°	26.9	35.4	39.9	37.7	35.6
87.5°	6.9	12.8	16.4	16.4	17.2
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)