

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P521820

Luminaire Tested: **SQ4-WB-075U-050D-93050-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P521820
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-50,
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-050D-93050-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

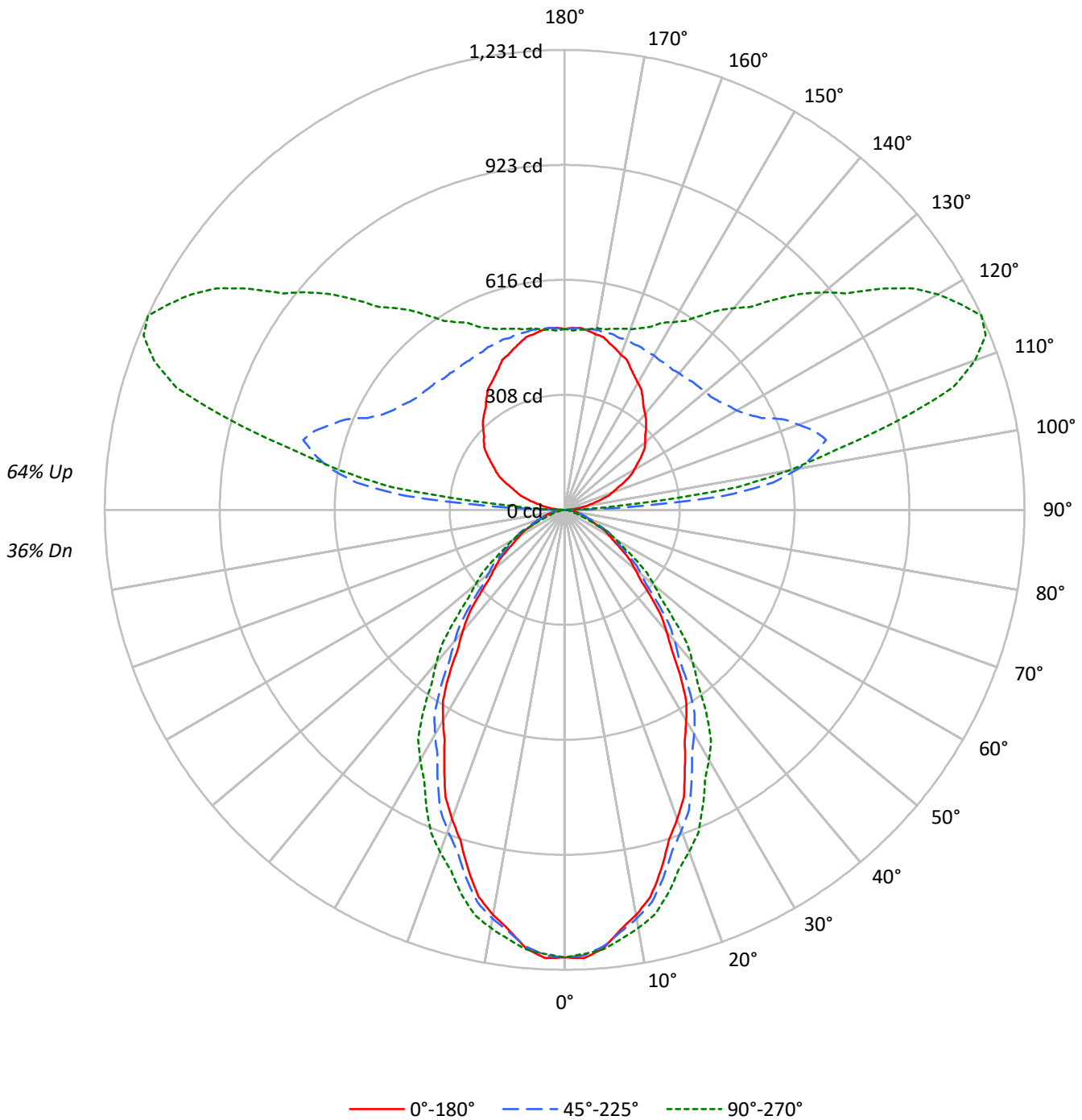
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4878.5 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44.4
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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36
1	95	91	88	85	86	83	80	77	67	65	63	53	51	50	39	39	38	32
2	88	81	75	71	79	74	69	65	60	57	54	47	45	43	36	34	33	28
3	80	72	65	60	73	65	60	55	54	50	46	43	40	38	32	31	29	25
4	74	64	57	51	67	59	52	48	48	44	40	38	35	33	30	28	26	22
5	68	57	50	45	62	53	46	41	43	39	35	35	32	29	27	25	23	20
6	63	52	44	39	57	48	41	36	39	35	31	32	29	26	25	23	21	18
7	58	47	40	34	53	43	37	32	36	31	28	29	26	23	23	21	19	16
8	54	43	36	31	49	39	33	29	33	28	25	27	24	21	21	19	17	15
9	51	39	32	28	46	36	30	26	30	26	22	25	22	19	20	18	16	14
10	47	36	29	25	43	33	27	23	28	24	20	23	20	17	19	16	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11054	11054	11054
5°	10916	10877	10941
10°	10313	10407	10648
15°	9520	9742	10178
20°	8646	8971	9564
25°	7754	8178	8911
30°	6933	7387	8233
35°	6063	6501	7431
40°	5103	5509	6433
45°	4212	4575	5370
50°	3517	3834	4474
55°	2985	3289	3695
60°	2552	2853	2949
65°	2030	2399	1906
70°	1802	1872	1163
75°	1668	1519	713
80°	1536	1397	616
85°	1387	1281	498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	2.3
10°-20°	285.8	5.9
20°-30°	370.2	7.6
30°-40°	362.6	7.4
40°-50°	277.5	5.7
50°-60°	184.9	3.8
60°-70°	100.9	2.1
70°-80°	42.1	0.9
80°-90°	11.9	0.2
90°-100°	249.4	5.1
100°-110°	602.8	12.4
110°-120°	642.9	13.2
120°-130°	520.7	10.7
130°-140°	403.1	8.3
140°-150°	307.5	6.3
150°-160°	222.6	4.6
160°-170°	137.1	2.8
170°-180°	46.4	1.0
0°-30°	766.0	15.7
0°-40°	1128.5	23.1
0°-60°	1591.0	32.6
0°-90°	1745.9	35.8
90°-120°	1495.1	30.6
90°-150°	2726.5	55.9
90°-180°	3133.0	64.2
0°-180°	4878.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1179	1167	1174	1177	1181	110
15°	997	993	1020	1048	1066	278
25°	762	764	803	838	875	350
35°	538	541	577	616	660	335
45°	323	329	351	377	412	252
55°	186	193	204	212	230	168
65°	93	101	110	96	87	97
75°	47	47	43	29	20	50
85°	13	13	12	8	5	14
90°	0	0	0	0	0	2
95°	25	125	427	278	195	28
105°	96	166	724	937	925	102
115°	176	225	582	1103	1231	174
125°	251	289	505	878	1031	224
135°	308	344	485	692	796	238
145°	365	392	476	588	634	228
155°	418	436	482	521	540	193
165°	462	469	488	495	502	130
175°	489	487	489	485	484	46
180°	484	484	484	484	484	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1198.1	1198.1	1198.1	1198.1	1198.1
2.5°	1201.0	1190.3	1193.0	1193.0	1189.7
5°	1178.6	1166.8	1174.4	1177.1	1181.3
7.5°	1134.9	1125.9	1139.8	1150.1	1158.4
10°	1100.8	1093.1	1110.8	1125.8	1136.6
12.5°	1061.3	1054.8	1076.7	1096.8	1110.9
15°	996.7	993.1	1019.9	1047.6	1065.6
17.5°	927.7	925.9	956.6	989.0	1012.0
20°	880.6	880.0	913.7	947.4	974.1
22.5°	833.0	834.2	869.5	904.6	935.0
25°	761.7	763.8	803.3	838.3	875.3
27.5°	695.8	696.7	737.6	774.5	814.0
30°	650.8	653.4	693.4	731.7	772.8
32.5°	605.8	608.8	648.0	687.5	729.5
35°	538.3	540.9	577.2	616.1	659.8
37.5°	468.7	472.2	504.5	541.2	584.2
40°	423.7	428.9	457.4	492.0	534.1
42.5°	380.4	386.8	413.2	446.0	484.1
45°	322.8	329.0	350.6	377.2	411.6
47.5°	273.2	280.2	296.9	319.8	349.2
50°	245.0	251.7	267.1	284.0	311.7
52.5°	220.2	226.8	240.6	253.6	277.3
55°	185.6	193.3	204.5	212.3	229.7
57.5°	157.2	164.6	173.5	177.0	187.6
60°	138.3	146.5	154.6	154.2	159.8
62.5°	121.0	128.0	136.1	130.5	130.8
65°	93.0	100.8	109.9	96.0	87.3
67.5°	75.2	76.8	86.2	66.9	56.6
70°	66.8	66.8	69.4	51.8	43.1
72.5°	58.8	58.8	56.4	42.2	33.0
75°	46.8	46.8	42.6	29.2	20.0
77.5°	36.1	35.7	32.6	21.8	14.5
80°	28.9	28.9	26.3	17.2	11.6
82.5°	22.6	22.6	20.4	13.5	8.6
85°	13.1	13.1	12.1	7.8	4.7
87.5°	4.6	4.6	4.2	2.5	2.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.2	67.5	159.0	77.3	52.5
95°	24.6	124.8	427.3	277.9	194.7
97.5°	43.7	138.2	562.8	542.2	465.4
100°	58.4	146.6	637.4	672.8	609.7
102.5°	72.3	154.1	686.6	781.6	744.2
105°	96.3	166.5	724.5	937.3	925.3
107.5°	119.9	181.0	702.1	1062.3	1090.5
110°	136.3	193.4	666.1	1116.1	1169.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	152.7	205.8	634.1	1129.3	1220.0
115°	176.3	225.3	582.0	1103.4	1230.7
117.5°	199.6	245.9	551.5	1044.1	1193.2
120°	215.2	258.3	531.8	997.5	1153.8
122.5°	231.6	271.5	519.5	949.9	1103.8
125°	251.1	289.1	505.2	877.6	1030.9
127.5°	270.3	306.2	495.1	816.3	950.9
130°	281.8	316.9	491.9	773.6	905.9
132.5°	292.5	329.1	486.9	742.8	855.0
135°	308.4	344.5	484.7	692.0	796.2
137.5°	323.6	359.9	477.5	657.6	736.2
140°	335.1	368.1	477.5	632.9	705.0
142.5°	346.6	379.6	473.4	611.3	672.2
145°	364.8	391.9	475.5	588.2	634.3
147.5°	381.8	408.1	474.2	561.6	599.7
150°	392.5	415.5	477.5	549.9	580.0
152.5°	403.9	426.2	476.7	537.6	564.4
155°	418.1	436.1	481.6	521.0	540.0
157.5°	435.1	450.5	480.6	514.7	525.9
160°	441.7	454.7	484.7	506.4	514.4
162.5°	452.3	463.7	483.1	503.9	508.7
165°	462.2	469.2	487.8	495.1	502.1
167.5°	474.2	478.9	486.5	494.5	494.7
170°	477.5	480.5	489.8	488.9	493.9
172.5°	483.3	485.5	487.4	489.5	486.5
175°	488.8	486.8	488.8	484.7	483.7
177.5°	487.8	487.8	486.1	484.4	480.4
180°	483.7	483.7	483.7	483.7	483.7

(END OF REPORT)