

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: P522026

Luminaire Tested: **SQ4-WB-150U-050D-93050-1D-UNV-STD-W-4 (4000K)**

Issue Date: 5/5/2021

Test Information

Test Method: LM-79-08
Report Number: P522026
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-150U-050D-93050-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

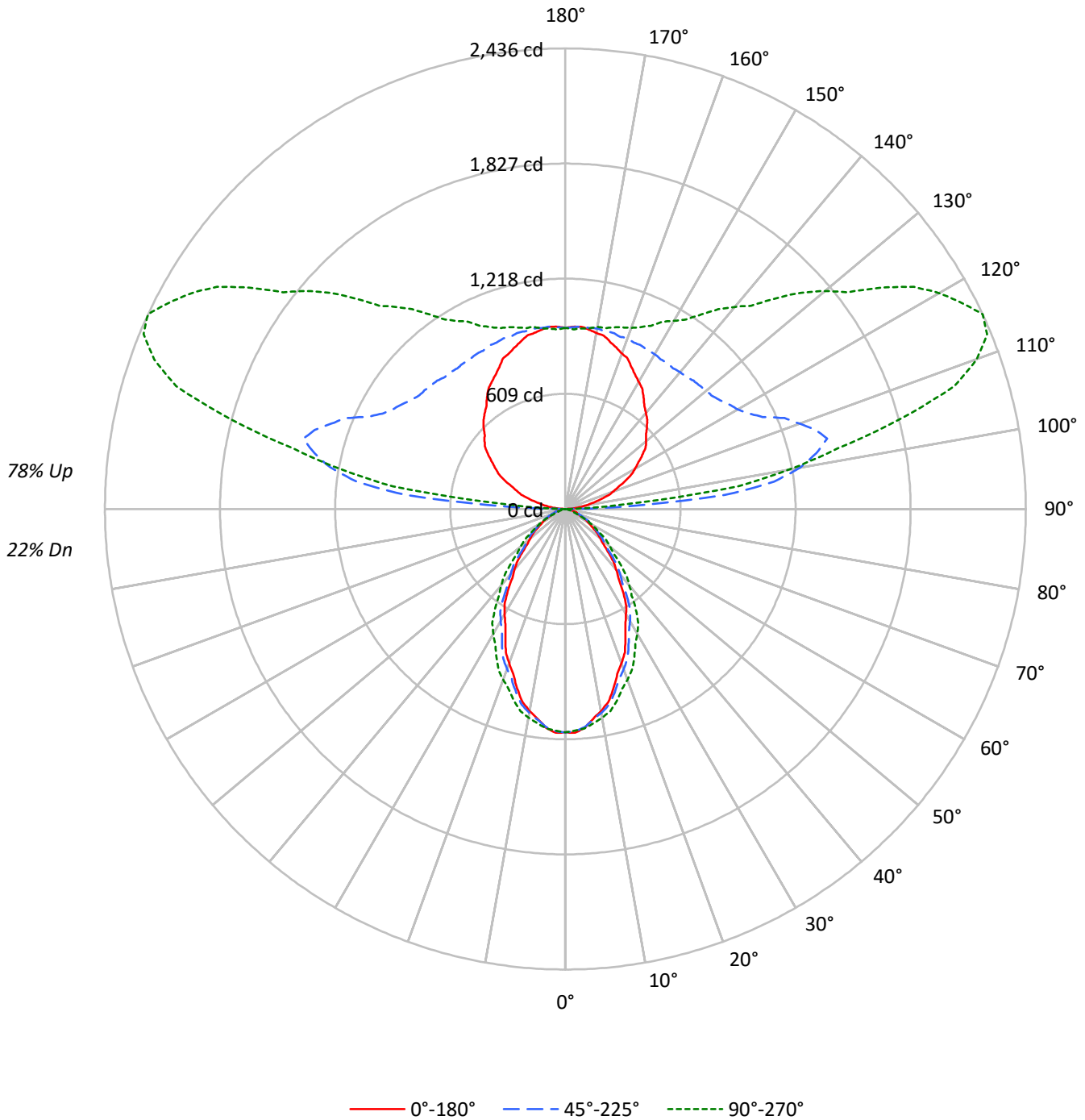
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7923.5 lumens
Efficiency: N/A
Efficacy: 110.2 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): 71.9
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	100	100	100	100	89	89	89	89	68	68	68	48	48	48	30	30	30	22
1	92	88	84	81	81	78	75	73	60	58	56	43	42	41	27	27	26	19
2	84	77	72	67	74	69	64	60	53	50	47	38	36	35	25	24	23	17
3	77	68	62	56	68	61	55	51	47	43	40	34	32	30	22	21	20	15
4	71	61	54	48	62	54	48	44	42	38	35	31	28	26	20	19	18	13
5	65	54	47	41	57	49	42	38	38	33	30	28	25	23	19	17	16	12
6	60	49	41	36	53	44	37	33	34	30	26	25	22	20	17	15	14	11
7	55	44	37	31	49	40	33	29	31	27	23	23	20	18	16	14	13	10
8	51	40	33	28	46	36	30	25	28	24	21	21	18	16	14	13	12	9
9	48	36	29	25	42	33	27	23	26	22	19	20	17	15	13	12	11	8
10	45	33	27	22	40	30	24	20	24	20	17	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10902	10902	10902
5°	10766	10728	10790
10°	10171	10263	10502
15°	9389	9608	10039
20°	8527	8847	9432
25°	7648	8065	8788
30°	6838	7286	8120
35°	5980	6412	7329
40°	5033	5433	6345
45°	4153	4512	5297
50°	3468	3781	4414
55°	2944	3244	3645
60°	2517	2812	2908
65°	2004	2366	1880
70°	1775	1845	1146
75°	1643	1497	702
80°	1514	1376	606
85°	1376	1260	498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	1.4
10°-20°	281.9	3.6
20°-30°	365.2	4.6
30°-40°	357.6	4.5
40°-50°	273.7	3.5
50°-60°	182.4	2.3
60°-70°	99.5	1.3
70°-80°	41.5	0.5
80°-90°	11.7	0.1
90°-100°	493.7	6.2
100°-110°	1193.3	15.1
110°-120°	1272.7	16.1
120°-130°	1030.8	13.0
130°-140°	798.1	10.1
140°-150°	608.8	7.7
150°-160°	440.7	5.6
160°-170°	271.4	3.4
170°-180°	91.9	1.2
0°-30°	755.4	9.5
0°-40°	1113.0	14.0
0°-60°	1569.1	19.8
0°-90°	1721.8	21.7
90°-120°	2959.8	37.4
90°-150°	5397.5	68.1
90°-180°	6202.0	78.3
0°-180°	7923.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1182	1182	1182	1182	1182	
5°	1162	1151	1158	1161	1165	108
15°	983	980	1006	1033	1051	275
25°	751	753	792	827	863	346
35°	531	534	569	608	651	330
45°	318	324	346	372	406	248
55°	183	191	202	209	227	166
65°	92	99	108	95	86	95
75°	46	46	42	29	20	49
85°	13	13	12	8	5	14
90°	0	0	0	0	0	3
95°	49	247	846	550	385	55
105°	191	330	1434	1856	1832	201
115°	349	446	1152	2184	2436	345
125°	497	572	1000	1737	2041	443
135°	611	682	960	1370	1576	471
145°	722	776	941	1164	1256	451
155°	828	863	954	1031	1069	382
165°	915	929	966	980	994	258
175°	968	964	968	960	958	91
180°	958	958	958	958	958	



TEST NUMBER: P522026

CATALOG NUMBER: SQ4-WB-150U-050D-93050-1D-UNV-STD-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.6	1181.6	1181.6	1181.6	1181.6
2.5°	1184.5	1174.0	1176.6	1176.6	1173.3
5°	1162.4	1150.8	1158.3	1161.0	1165.0
7.5°	1119.3	1110.5	1124.2	1134.3	1142.5
10°	1085.7	1078.1	1095.5	1110.3	1121.0
12.5°	1046.7	1040.3	1062.0	1081.8	1095.7
15°	983.0	979.5	1005.9	1033.2	1051.0
17.5°	914.9	913.2	943.4	975.4	998.1
20°	868.5	867.9	901.1	934.4	960.7
22.5°	821.6	822.7	857.6	892.2	922.2
25°	751.3	753.3	792.2	826.8	863.3
27.5°	686.3	687.2	727.4	763.9	802.8
30°	641.9	644.4	683.9	721.6	762.2
32.5°	597.5	600.4	639.1	678.1	719.4
35°	530.9	533.5	569.3	607.6	650.7
37.5°	462.3	465.7	497.5	533.8	576.1
40°	417.9	423.0	451.1	485.2	526.8
42.5°	375.2	381.5	407.5	439.9	477.4
45°	318.3	324.4	345.8	372.0	406.0
47.5°	269.4	276.4	292.8	315.4	344.4
50°	241.6	248.2	263.4	280.1	307.5
52.5°	217.1	223.7	237.3	250.1	273.4
55°	183.0	190.6	201.7	209.3	226.6
57.5°	155.0	162.3	171.1	174.6	185.0
60°	136.4	144.5	152.4	152.0	157.6
62.5°	119.4	126.2	134.2	128.7	129.0
65°	91.8	99.4	108.4	94.7	86.1
67.5°	74.1	75.8	85.0	66.0	55.8
70°	65.8	65.8	68.4	51.1	42.5
72.5°	58.0	58.0	55.6	41.6	32.6
75°	46.1	46.1	42.0	28.8	19.7
77.5°	35.6	35.2	32.1	21.5	14.3
80°	28.5	28.5	25.9	17.0	11.4
82.5°	22.3	22.3	20.1	13.3	8.5
85°	13.0	13.0	11.9	7.7	4.7
87.5°	4.6	4.6	4.1	2.5	2.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	16.2	133.7	314.8	153.1	103.9
95°	48.7	247.0	845.9	550.1	385.4
97.5°	86.4	273.7	1114.1	1073.3	921.4
100°	115.6	290.2	1261.8	1332.0	1207.0
102.5°	143.2	305.1	1359.2	1547.4	1473.2
105°	190.7	329.5	1434.2	1855.7	1831.9
107.5°	237.3	358.3	1390.0	2102.9	2158.9
110°	269.8	382.9	1318.6	2209.5	2314.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	302.3	407.4	1255.3	2235.6	2415.3
115°	348.9	446.1	1152.3	2184.5	2436.4
117.5°	395.2	486.8	1091.8	2067.0	2362.1
120°	426.0	511.3	1052.9	1974.8	2284.2
122.5°	458.5	537.4	1028.5	1880.6	2185.2
125°	497.0	572.4	1000.1	1737.3	2040.8
127.5°	535.2	606.2	980.2	1616.0	1882.6
130°	557.9	627.3	973.7	1531.5	1793.3
132.5°	579.0	651.6	964.0	1470.5	1692.7
135°	610.6	682.0	959.5	1370.0	1576.2
137.5°	640.6	712.4	945.3	1301.9	1457.4
140°	663.4	728.8	945.3	1252.9	1395.7
142.5°	686.1	751.5	937.2	1210.2	1330.8
145°	722.2	775.7	941.3	1164.5	1255.7
147.5°	755.9	807.8	938.9	1111.8	1187.2
150°	777.0	822.6	945.3	1088.7	1148.2
152.5°	799.7	843.7	943.7	1064.2	1117.4
155°	827.7	863.4	953.5	1031.4	1069.1
157.5°	861.4	891.9	951.4	1018.9	1041.1
160°	874.3	900.1	959.5	1002.5	1018.4
162.5°	895.4	918.1	956.3	997.5	1007.0
165°	914.9	928.8	965.6	980.1	994.0
167.5°	938.9	948.0	963.2	979.0	979.4
170°	945.3	951.3	969.7	967.9	977.8
172.5°	956.7	961.1	964.8	969.1	963.2
175°	967.7	963.7	967.7	959.5	957.5
177.5°	965.6	965.6	962.4	959.0	951.0
180°	957.5	957.5	957.5	957.5	957.5

(END OF REPORT)