

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: P519516

Luminaire Tested: **SQ4-WB-125U-100D-935-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519516
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-100D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

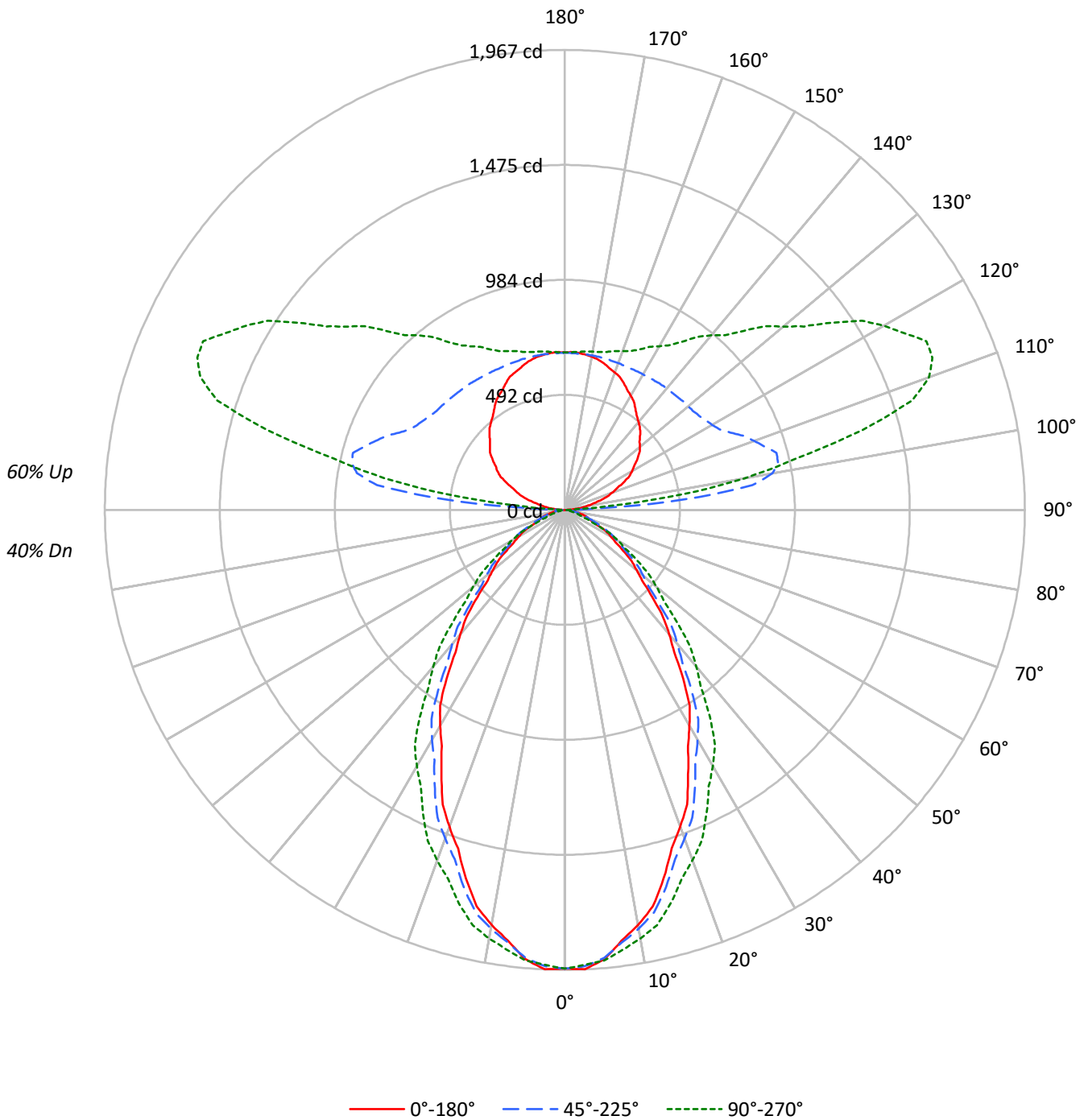
Lumens per Lamp: N/A
Luminaire Lumens: 7204.4 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.5
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	105	105	105	105	95	95	95	95	78	78	78	61	61	61	47	47	47	40
1	96	92	89	86	88	84	81	79	69	67	65	55	54	53	43	42	41	35
2	88	82	76	72	80	75	70	66	62	59	56	50	48	46	39	37	36	31
3	81	73	66	61	74	67	61	56	55	51	48	45	42	40	35	33	32	27
4	75	65	58	52	68	60	54	49	50	45	42	41	37	35	32	30	28	24
5	69	58	51	45	63	54	47	42	45	40	37	37	34	31	29	27	25	22
6	64	53	45	40	58	49	42	37	41	36	32	34	30	28	27	25	23	20
7	59	48	40	35	54	44	38	33	37	33	29	31	27	25	25	23	21	18
8	55	44	36	32	50	40	34	30	34	29	26	29	25	22	23	21	19	16
9	52	40	33	28	47	37	31	27	32	27	24	26	23	20	22	19	17	15
10	48	37	30	26	44	34	28	24	29	25	21	25	21	19	20	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18102	18102	18102
5°	17876	17813	17916
10°	16889	17042	17438
15°	15591	15953	16669
20°	14158	14691	15663
25°	12700	13392	14592
30°	11355	12097	13482
35°	9930	10647	12169
40°	8357	9021	10535
45°	6897	7492	8796
50°	5759	6277	7327
55°	4888	5387	6051
60°	4178	4670	4829
65°	3327	3927	3120
70°	2948	3064	1904
75°	2731	2485	1166
80°	2513	2285	1004
85°	2276	2096	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.0	2.5
10°-20°	468.1	6.5
20°-30°	606.3	8.4
30°-40°	593.7	8.2
40°-50°	454.5	6.3
50°-60°	302.8	4.2
60°-70°	165.2	2.3
70°-80°	68.8	1.0
80°-90°	21.1	0.3
90°-100°	314.8	4.4
100°-110°	847.9	11.8
110°-120°	889.9	12.4
120°-130°	722.1	10.0
130°-140°	566.3	7.9
140°-150°	434.8	6.0
150°-160°	312.6	4.3
160°-170°	191.0	2.7
170°-180°	64.4	0.9
0°-30°	1254.4	17.4
0°-40°	1848.1	25.7
0°-60°	2605.4	36.2
0°-90°	2860.5	39.7
90°-120°	2052.6	28.5
90°-150°	3775.9	52.4
90°-180°	4344.0	60.3
0°-180°	7204.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1962	1962	1962	1962	1962	
5°	1930	1911	1923	1928	1934	180
15°	1632	1626	1670	1716	1745	456
25°	1248	1251	1316	1373	1433	574
35°	882	886	945	1009	1080	548
45°	529	539	574	618	674	412
55°	304	316	335	348	376	276
65°	152	165	180	157	143	158
75°	77	77	70	48	33	82
85°	22	22	20	13	8	23
90°	2	5	10	11	11	4
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1962.0	1962.0	1962.0	1962.0	1962.0
2.5°	1966.8	1949.3	1953.7	1953.6	1948.2
5°	1930.1	1910.8	1923.3	1927.7	1934.5
7.5°	1858.5	1843.9	1866.6	1883.5	1897.1
10°	1802.7	1790.1	1819.1	1843.6	1861.3
12.5°	1738.0	1727.4	1763.3	1796.2	1819.3
15°	1632.3	1626.4	1670.2	1715.6	1745.1
17.5°	1519.2	1516.3	1566.5	1619.5	1657.2
20°	1442.0	1441.2	1496.3	1551.5	1595.3
22.5°	1364.2	1366.0	1423.9	1481.4	1531.2
25°	1247.5	1250.8	1315.5	1372.8	1433.4
27.5°	1139.5	1141.0	1207.8	1268.4	1333.0
30°	1065.8	1070.0	1135.5	1198.2	1265.5
32.5°	992.1	997.0	1061.2	1125.9	1194.6
35°	881.6	885.8	945.3	1008.9	1080.4
37.5°	767.6	773.3	826.1	886.3	956.6
40°	693.9	702.3	749.0	805.7	874.7
42.5°	623.0	633.4	676.7	730.4	792.7
45°	528.6	538.7	574.2	617.7	674.1
47.5°	447.3	458.9	486.2	523.7	571.8
50°	401.2	412.1	437.3	465.1	510.5
52.5°	360.5	371.5	394.0	415.3	454.0
55°	303.9	316.5	334.9	347.6	376.2
57.5°	257.4	269.5	284.1	289.8	307.2
60°	226.4	239.9	253.1	252.5	261.7
62.5°	198.2	209.6	222.8	213.7	214.2
65°	152.4	165.0	179.9	157.2	142.9
67.5°	123.1	125.8	141.2	109.6	92.6
70°	109.3	109.3	113.6	84.9	70.6
72.5°	96.2	96.2	92.3	69.0	54.1
75°	76.6	76.6	69.7	47.9	32.7
77.5°	59.1	58.4	53.4	35.7	23.8
80°	47.3	47.3	43.0	28.2	18.9
82.5°	37.0	37.0	33.4	22.0	14.1
85°	21.5	21.5	19.8	12.8	7.7
87.5°	7.9	8.6	8.9	6.3	5.7
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)