

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: P519540

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519540
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-125D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

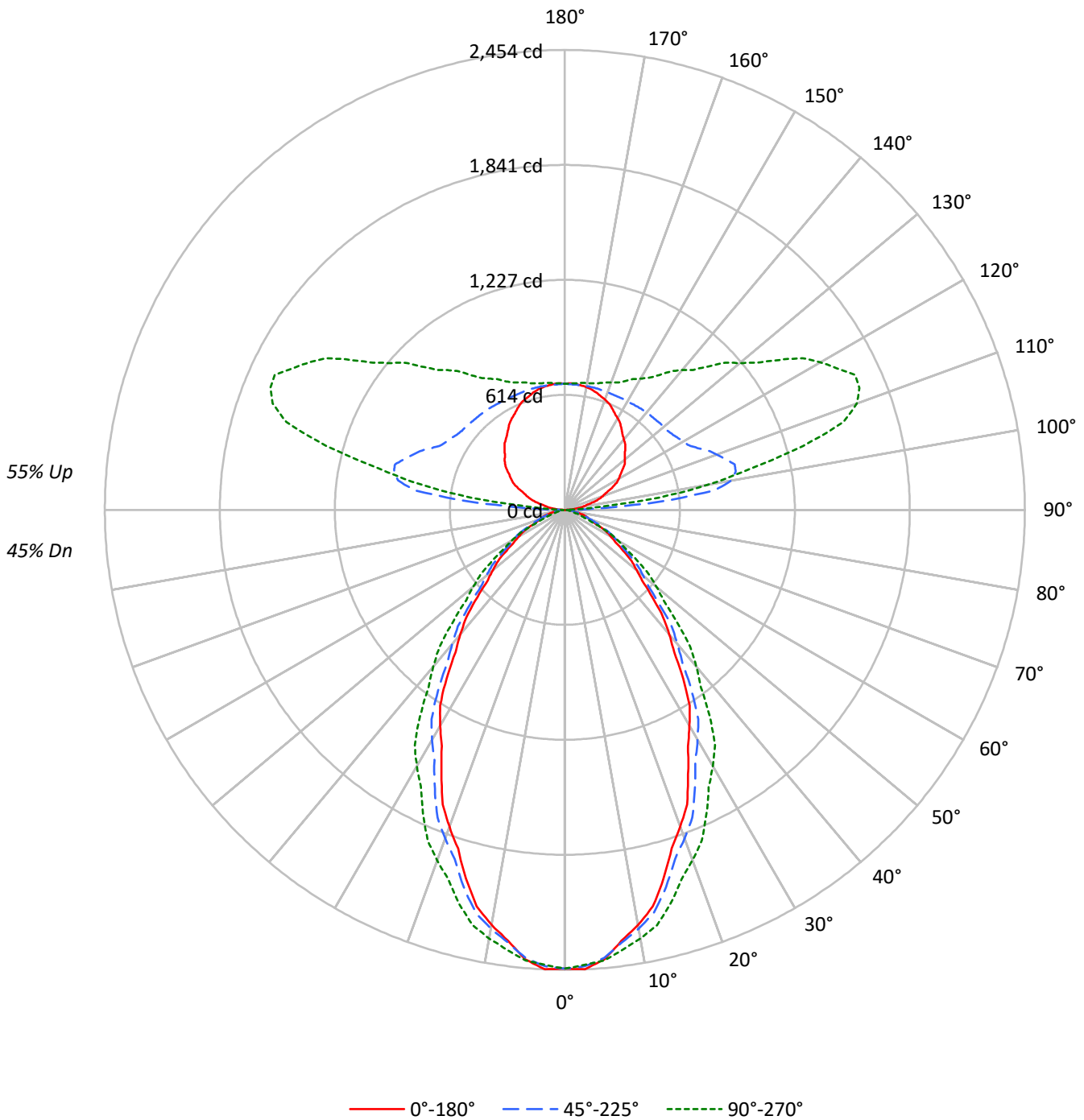
Lumens per Lamp: N/A
Luminaire Lumens: 7912.2 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22302	22222	22351
10°	21070	21261	21755
15°	19451	19902	20795
20°	17663	18328	19540
25°	15843	16706	18205
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8605	9347	10973
50°	7184	7831	9142
55°	6098	6720	7550
60°	5213	5827	6025
65°	4150	4901	3892
70°	3679	3825	2377
75°	3408	3101	1454
80°	3140	2853	1254
85°	2848	2615	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	2.8
10°-20°	584.0	7.4
20°-30°	756.4	9.6
30°-40°	740.7	9.4
40°-50°	567.0	7.2
50°-60°	377.8	4.8
60°-70°	206.2	2.6
70°-80°	85.9	1.1
80°-90°	25.9	0.3
90°-100°	314.8	4.0
100°-110°	847.9	10.7
110°-120°	889.9	11.2
120°-130°	722.1	9.1
130°-140°	566.3	7.2
140°-150°	434.8	5.5
150°-160°	312.6	4.0
160°-170°	191.0	2.4
170°-180°	64.4	0.8
0°-30°	1564.9	19.8
0°-40°	2305.6	29.1
0°-60°	3250.4	41.1
0°-90°	3568.4	45.1
90°-120°	2052.6	25.9
90°-150°	3775.9	47.7
90°-180°	4344.0	54.9
0°-180°	7912.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2448	2448	2448	2448	2448	
5°	2408	2384	2399	2405	2413	224
15°	2036	2029	2084	2140	2177	569
25°	1556	1560	1641	1713	1788	716
35°	1100	1105	1179	1259	1348	684
45°	660	672	716	771	841	514
55°	379	395	418	434	469	344
65°	190	206	224	196	178	198
75°	96	96	87	60	41	102
85°	27	27	25	16	10	29
90°	2	5	10	11	11	5
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°	2447.7	2447.7	2447.7	2447.7	2447.7
2.5°	2453.7	2431.9	2437.4	2437.2	2430.5
5°	2408.0	2383.8	2399.4	2404.9	2413.3
7.5°	2318.6	2300.3	2328.7	2349.7	2366.7
10°	2249.0	2233.3	2269.4	2300.0	2322.1
12.5°	2168.2	2155.0	2199.8	2240.9	2269.6
15°	2036.4	2029.0	2083.6	2140.3	2177.1
17.5°	1895.2	1891.7	1954.3	2020.5	2067.5
20°	1799.0	1797.9	1866.7	1935.6	1990.2
22.5°	1701.9	1704.2	1776.4	1848.1	1910.3
25°	1556.3	1560.5	1641.1	1712.6	1788.3
27.5°	1421.6	1423.5	1506.9	1582.4	1663.0
30°	1329.6	1334.9	1416.6	1494.8	1578.8
32.5°	1237.7	1243.8	1323.8	1404.6	1490.3
35°	1099.8	1105.1	1179.3	1258.6	1347.9
37.5°	957.6	964.7	1030.6	1105.7	1193.5
40°	865.7	876.2	934.4	1005.1	1091.2
42.5°	777.2	790.2	844.2	911.3	989.0
45°	659.5	672.1	716.4	770.6	841.0
47.5°	558.1	572.6	606.6	653.3	713.4
50°	500.5	514.1	545.6	580.2	636.9
52.5°	449.8	463.5	491.5	518.1	566.4
55°	379.1	394.9	417.8	433.6	469.4
57.5°	321.1	336.3	354.4	361.6	383.2
60°	282.5	299.3	315.8	315.0	326.5
62.5°	247.2	261.5	278.0	266.6	267.2
65°	190.1	205.9	224.5	196.1	178.3
67.5°	153.6	156.9	176.1	136.8	115.6
70°	136.4	136.4	141.8	105.9	88.1
72.5°	120.1	120.1	115.1	86.1	67.4
75°	95.6	95.6	87.0	59.7	40.8
77.5°	73.7	72.8	66.6	44.6	29.6
80°	59.1	59.1	53.7	35.2	23.6
82.5°	46.2	46.2	41.7	27.5	17.6
85°	26.9	26.9	24.7	16.0	9.7
87.5°	9.8	10.5	10.6	7.4	6.5
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)