

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: P519158

Luminaire Tested: **SQ4-WB-050U-125D-935-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519158
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-050U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

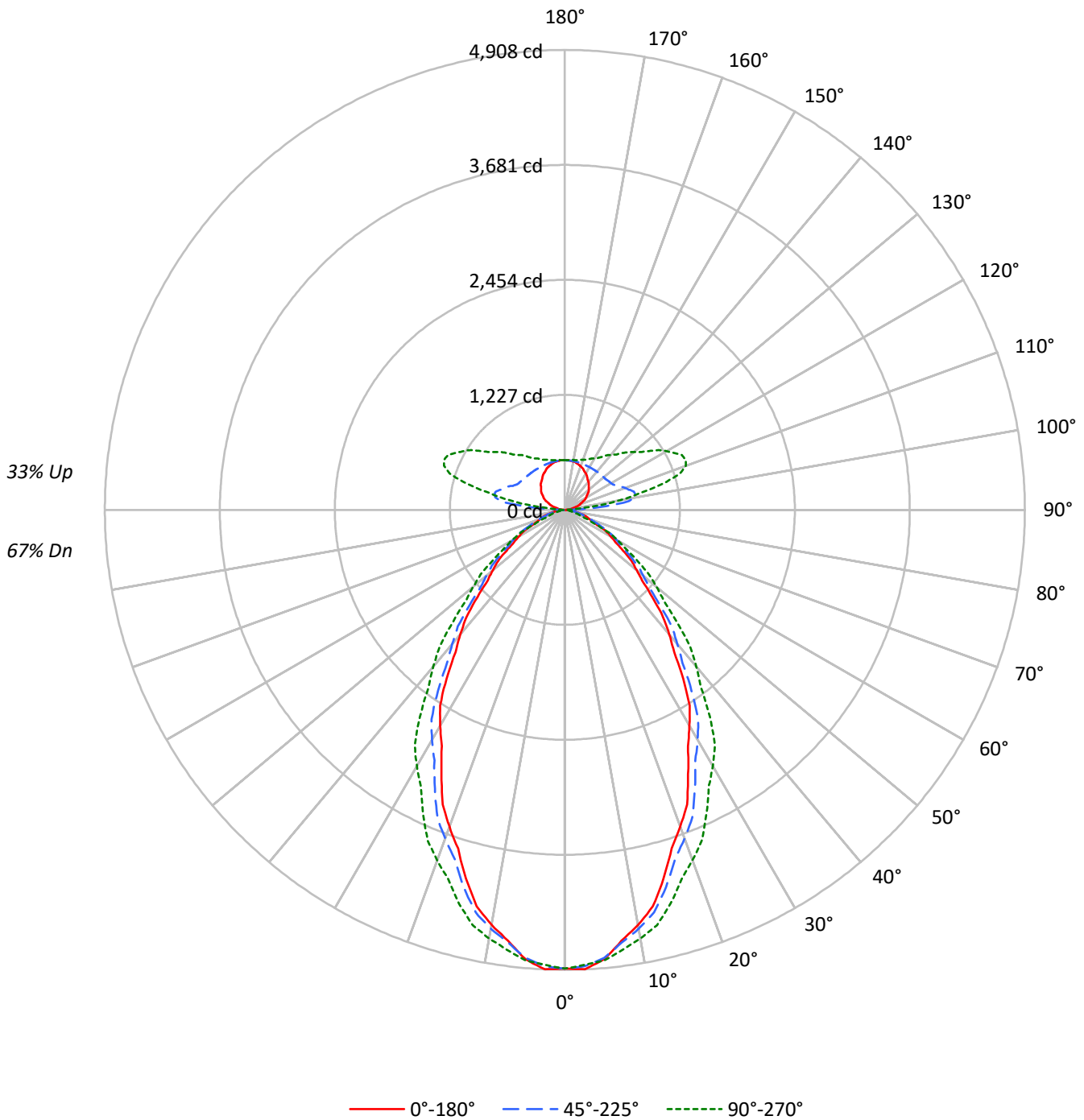
Lumens per Lamp: N/A
Luminaire Lumens: 10597.1 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 114.8
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									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	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67																												
1	103	99	96	93	97	94	91	88	84	82	80	75	73	71	66	65	64	60																												
2	95	89	83	79	90	84	79	75	75	72	69	67	65	62	60	58	56	53																												
3	88	79	73	67	83	75	70	65	68	63	60	61	58	55	55	52	50	47																												
4	81	72	64	59	77	68	62	57	62	57	52	56	52	48	50	47	44	41																												
5	76	65	57	52	71	62	55	50	56	51	47	51	47	43	46	43	40	37																												
6	70	59	51	46	66	56	49	44	51	46	42	47	42	39	42	39	36	34																												
7	65	54	46	41	62	52	45	40	47	42	38	43	39	35	39	36	33	31																												
8	61	50	42	37	58	48	41	36	44	38	34	40	35	32	37	33	30	28																												
9	57	46	39	34	54	44	37	33	40	35	31	37	33	29	34	30	28	26																												
10	54	42	36	31	51	41	34	30	38	32	29	35	30	27	32	28	25	24																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22583	22583	22583
5°	22301	22222	22351
10°	21070	21261	21754
15°	19451	19902	20794
20°	17663	18327	19540
25°	15843	16706	18204
30°	14165	15092	16820
35°	12387	13283	15182
40°	10426	11254	13142
45°	8604	9347	10973
50°	7184	7831	9142
55°	6099	6720	7550
60°	5212	5826	6025
65°	4150	4900	3892
70°	3679	3824	2375
75°	3408	3101	1454
80°	3137	2853	1257
85°	2842	2615	1022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	449.0	4.2
10°-20°	1167.9	11.0
20°-30°	1512.8	14.3
30°-40°	1481.4	14.0
40°-50°	1133.9	10.7
50°-60°	755.6	7.1
60°-70°	412.3	3.9
70°-80°	171.8	1.6
80°-90°	50.7	0.5
90°-100°	254.5	2.4
100°-110°	691.4	6.5
110°-120°	710.8	6.7
120°-130°	568.3	5.4
130°-140°	446.6	4.2
140°-150°	342.4	3.2
150°-160°	246.2	2.3
160°-170°	150.6	1.4
170°-180°	50.7	0.5
0°-30°	3129.8	29.5
0°-40°	4611.2	43.5
0°-60°	6500.7	61.3
0°-90°	7135.6	67.3
90°-120°	1656.7	15.6
90°-150°	3014.0	28.4
90°-180°	3462.0	32.7
0°-180°	10597.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4895	4895	4895	4895	4895	
5°	4816	4768	4799	4810	4827	448
15°	4073	4058	4167	4281	4354	1137
25°	3112	3121	3282	3425	3576	1431
35°	2200	2210	2359	2517	2696	1367
45°	1319	1344	1433	1541	1682	1029
55°	758	790	836	867	939	688
65°	380	412	449	392	357	395
75°	191	191	174	119	82	204
85°	54	54	49	32	19	58
90°	2	7	12	15	15	5
95°	38	139	443	193	130	40
105°	123	191	760	1158	1089	130
115°	218	265	609	1211	1379	215
125°	300	342	551	928	1094	267
135°	361	401	535	756	852	279
145°	418	448	528	642	690	262
155°	472	489	525	577	593	218
165°	511	518	527	549	551	144
175°	530	532	528	535	534	50
180°	530	530	530	530	530	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4895.4	4895.4	4895.4	4895.4	4895.4
2.5°	4907.5	4863.8	4874.8	4874.5	4861.1
5°	4815.9	4767.6	4798.8	4809.9	4826.7
7.5°	4637.2	4600.7	4657.4	4699.4	4733.5
10°	4498.0	4466.5	4538.8	4600.0	4644.1
12.5°	4336.5	4310.0	4399.7	4481.7	4539.3
15°	4072.7	4058.0	4167.2	4280.6	4354.1
17.5°	3790.5	3783.3	3908.6	4040.9	4135.0
20°	3598.0	3595.9	3733.3	3871.1	3980.4
22.5°	3403.8	3408.4	3552.9	3696.2	3820.5
25°	3112.5	3120.9	3282.2	3425.3	3576.5
27.5°	2843.2	2846.9	3013.7	3164.7	3326.1
30°	2659.3	2669.8	2833.3	2989.6	3157.6
32.5°	2475.4	2487.6	2647.7	2809.3	2980.6
35°	2199.6	2210.1	2358.6	2517.3	2695.8
37.5°	1915.2	1929.5	2061.3	2211.3	2386.9
40°	1731.3	1752.3	1868.8	2010.2	2182.4
42.5°	1554.3	1580.4	1688.4	1822.5	1977.9
45°	1318.9	1344.1	1432.8	1541.2	1681.9
47.5°	1116.1	1145.1	1213.2	1306.6	1426.7
50°	1001.0	1028.3	1091.2	1160.4	1273.8
52.5°	899.6	926.9	983.0	1036.3	1132.9
55°	758.3	789.8	835.6	867.3	938.7
57.5°	642.3	672.5	708.9	723.2	766.4
60°	564.9	598.5	631.5	629.9	653.0
62.5°	494.5	523.0	555.9	533.2	534.4
65°	380.2	411.7	448.9	392.3	356.6
67.5°	307.2	313.9	352.3	273.6	231.1
70°	272.8	272.8	283.5	211.8	176.1
72.5°	240.2	240.2	230.3	172.3	134.9
75°	191.2	191.2	174.0	119.4	81.6
77.5°	147.4	145.7	133.2	89.1	59.3
80°	118.1	118.1	107.4	70.4	47.3
82.5°	92.4	92.4	83.3	55.0	35.2
85°	53.7	53.7	49.4	31.9	19.3
87.5°	19.2	20.2	19.6	13.3	11.7
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.7	121.0	52.0	44.0
95°	37.5	139.2	443.2	192.9	129.6
97.5°	62.1	153.7	679.5	528.6	371.3
100°	78.4	163.4	751.8	762.1	615.4
102.5°	94.8	173.1	770.9	942.5	813.1
105°	122.7	191.1	760.3	1157.6	1089.3
107.5°	151.7	212.1	716.3	1268.7	1287.7
110°	172.2	227.2	683.6	1290.6	1372.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.9	242.2	650.8	1272.4	1395.4
115°	218.2	264.9	608.6	1210.7	1379.1
117.5°	244.8	289.5	581.6	1123.3	1312.9
120°	262.5	305.9	569.4	1064.6	1252.9
122.5°	277.5	320.9	561.2	1005.8	1187.5
125°	300.0	341.7	550.6	927.7	1094.4
127.5°	320.1	361.5	544.8	868.5	1011.6
130°	332.4	372.4	542.1	831.4	959.7
132.5°	344.7	384.7	539.4	799.7	913.4
135°	361.4	401.4	535.3	755.7	852.3
137.5°	379.5	415.8	533.2	716.8	798.1
140°	390.4	425.4	531.9	692.1	765.4
142.5°	401.3	433.6	530.5	672.7	734.0
145°	417.6	447.6	528.4	642.1	690.4
147.5°	436.1	461.7	526.7	618.0	656.0
150°	448.3	470.0	526.7	604.1	634.1
152.5°	457.9	476.9	525.4	591.7	616.4
155°	472.2	488.9	525.0	576.6	593.2
157.5°	486.2	499.2	525.0	566.2	578.9
160°	494.4	506.0	525.0	559.4	569.4
162.5°	502.5	511.5	526.4	553.8	561.2
165°	511.4	518.1	526.7	548.9	550.6
167.5°	520.6	523.9	528.4	543.1	544.5
170°	523.3	526.7	528.4	540.4	540.4
172.5°	526.1	528.1	528.4	537.7	537.7
175°	530.2	531.8	528.4	535.2	533.6
177.5°	531.5	531.5	527.4	532.8	530.2
180°	530.2	530.2	530.2	530.2	530.2

(END OF REPORT)