

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: P562404

Luminaire Tested: **SQ4-PW1-125U-050D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562404
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-050D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

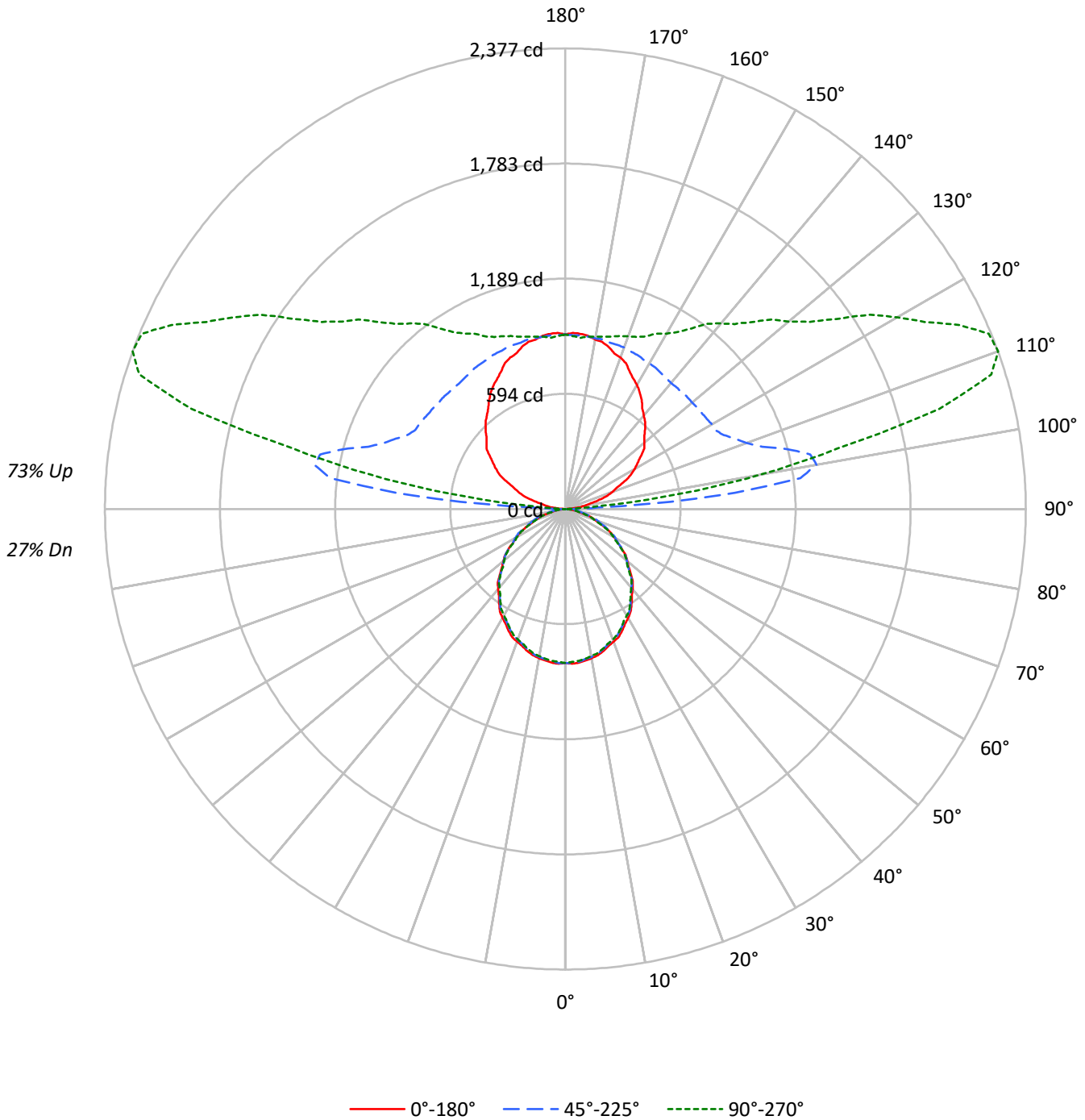
Lumens per Lamp: N/A
Luminaire Lumens: 7615.2 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62.2
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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27
1	93	88	85	81	83	79	76	73	62	60	58	45	44	43	31	30	29	23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21	16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18	14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16	12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	20	17	15	14	11
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12	9
8	51	39	31	26	45	35	28	24	28	23	20	21	18	15	15	12	11	8
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10	8
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7336	7336	7336
5°	7383	7325	7292
10°	7324	7265	7226
15°	7247	7167	7139
20°	7160	7050	7036
25°	7060	6932	6910
30°	6911	6807	6762
35°	6714	6619	6580
40°	6505	6404	6378
45°	6253	6169	6142
50°	5993	5942	5902
55°	5714	5714	5623
60°	5364	5467	5274
65°	4910	5154	4788
70°	4327	4742	4214
75°	3697	4246	3597
80°	2864	3570	2901
85°	1853	2742	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.0
10°-20°	211.4	2.8
20°-30°	313.5	4.1
30°-40°	366.9	4.8
40°-50°	365.2	4.8
50°-60°	315.4	4.1
60°-70°	227.0	3.0
70°-80°	119.1	1.6
80°-90°	29.5	0.4
90°-100°	410.2	5.4
100°-110°	1167.3	15.3
110°-120°	1118.4	14.7
120°-130°	885.2	11.6
130°-140°	710.5	9.3
140°-150°	556.2	7.3
150°-160°	407.0	5.3
160°-170°	252.1	3.3
170°-180°	85.5	1.1
0°-30°	599.8	7.9
0°-40°	966.7	12.7
0°-60°	1647.3	21.6
0°-90°	2022.9	26.6
90°-120°	2695.9	35.4
90°-150°	4847.7	63.7
90°-180°	5592.0	73.4
0°-180°	7615.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	795	795	795	795	795	
5°	797	788	791	789	787	76
15°	759	749	750	749	747	214
25°	694	682	681	677	679	319
35°	596	588	588	582	584	373
45°	479	475	473	471	471	370
55°	355	354	355	350	350	317
65°	225	232	236	227	219	223
75°	104	113	119	111	101	111
85°	18	23	26	24	23	23
90°	0	0	0	0	0	2
95°	44	177	794	275	169	51
105°	181	275	1190	2101	1997	192
115°	337	408	902	1911	2244	332
125°	476	528	861	1429	1708	426
135°	582	630	851	1207	1364	449
145°	686	722	858	1044	1138	429
155°	784	802	878	944	982	362
165°	866	869	888	907	921	244
175°	907	902	899	893	887	86
180°	900	900	900	900	900	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	795.1	795.1	795.1	795.1	795.1
2.5°	799.6	793.0	795.1	793.3	789.5
5°	797.2	788.3	790.9	788.7	787.4
7.5°	789.1	780.8	782.8	780.5	779.7
10°	781.8	773.6	775.5	772.6	771.3
12.5°	773.4	764.6	766.5	763.7	762.9
15°	758.7	749.1	750.3	748.8	747.4
17.5°	741.6	731.8	732.0	729.8	729.5
20°	729.2	719.0	718.0	715.3	716.6
22.5°	715.8	705.0	704.0	700.1	702.1
25°	693.5	681.9	680.9	676.7	678.8
27.5°	667.7	656.2	656.2	650.4	652.6
30°	648.7	637.7	638.9	631.9	634.7
32.5°	628.5	618.6	619.3	612.3	615.1
35°	596.1	587.9	587.7	582.2	584.2
37.5°	563.1	555.8	554.7	551.5	552.0
40°	540.1	533.9	531.7	529.6	529.6
42.5°	516.0	510.4	508.2	506.6	506.1
45°	479.2	475.0	472.8	471.4	470.7
47.5°	442.7	438.9	437.0	436.0	435.3
50°	417.5	414.8	414.0	411.9	411.2
52.5°	392.3	390.6	389.9	387.2	386.5
55°	355.2	354.5	355.2	350.2	349.6
57.5°	316.5	317.6	319.9	313.2	311.6
60°	290.7	293.5	296.3	288.5	285.8
62.5°	264.4	268.8	272.8	263.9	260.0
65°	224.9	231.7	236.1	226.8	219.3
67.5°	186.8	195.3	200.5	190.5	182.0
70°	160.4	170.0	175.8	165.8	156.2
72.5°	137.4	148.1	152.9	143.4	133.8
75°	103.7	113.3	119.1	111.1	100.9
77.5°	73.6	82.6	87.4	80.5	72.0
80°	53.9	63.5	67.2	61.5	54.6
82.5°	38.2	46.2	48.8	45.3	40.6
85°	17.5	23.0	25.9	24.5	23.1
87.5°	4.5	8.3	10.6	10.7	11.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.7	72.6	168.4	49.0	37.0
95°	44.5	176.7	794.2	274.9	169.4
97.5°	81.8	207.0	1223.1	875.2	599.7
100°	107.8	225.0	1316.2	1333.2	1026.9
102.5°	136.6	244.4	1295.7	1706.5	1439.1
105°	181.4	275.1	1189.5	2101.2	1997.4
107.5°	227.0	311.0	1065.6	2212.4	2304.8
110°	258.4	337.1	994.4	2169.9	2377.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.6	363.2	946.5	2069.2	2365.0
115°	337.2	407.5	902.0	1910.8	2243.9
117.5°	380.0	445.9	875.6	1737.7	2090.5
120°	414.2	469.4	872.9	1638.8	1976.9
122.5°	441.6	496.8	866.1	1552.0	1866.0
125°	475.8	527.7	860.9	1428.7	1708.1
127.5°	513.1	561.7	858.2	1355.0	1585.3
130°	532.3	580.8	854.1	1303.6	1504.5
132.5°	552.8	600.0	854.1	1263.6	1448.3
135°	581.9	630.5	850.7	1206.8	1364.1
137.5°	609.3	656.5	850.3	1158.7	1294.6
140°	629.9	678.4	848.9	1118.9	1249.4
142.5°	653.1	693.6	853.0	1087.1	1204.3
145°	686.3	721.5	857.5	1044.5	1138.2
147.5°	714.8	748.9	865.0	1001.4	1082.4
150°	739.4	762.8	867.8	987.2	1044.1
152.5°	758.6	783.3	870.5	967.9	1020.8
155°	783.9	802.3	878.0	943.9	982.4
157.5°	815.4	826.4	879.7	933.1	960.5
160°	831.8	840.2	886.6	924.8	948.2
162.5°	841.4	851.1	888.0	917.8	935.9
165°	866.1	869.4	888.3	907.4	920.8
167.5°	882.8	879.8	896.2	904.9	910.2
170°	888.3	886.6	893.4	895.3	902.0
172.5°	900.6	894.9	897.5	892.5	897.9
175°	907.1	902.1	898.6	893.3	886.6
177.5°	909.9	901.8	897.5	892.1	893.4
180°	900.3	900.3	900.3	900.3	900.3

(END OF REPORT)