

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: P562043

Luminaire Tested: **SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562043
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-050D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

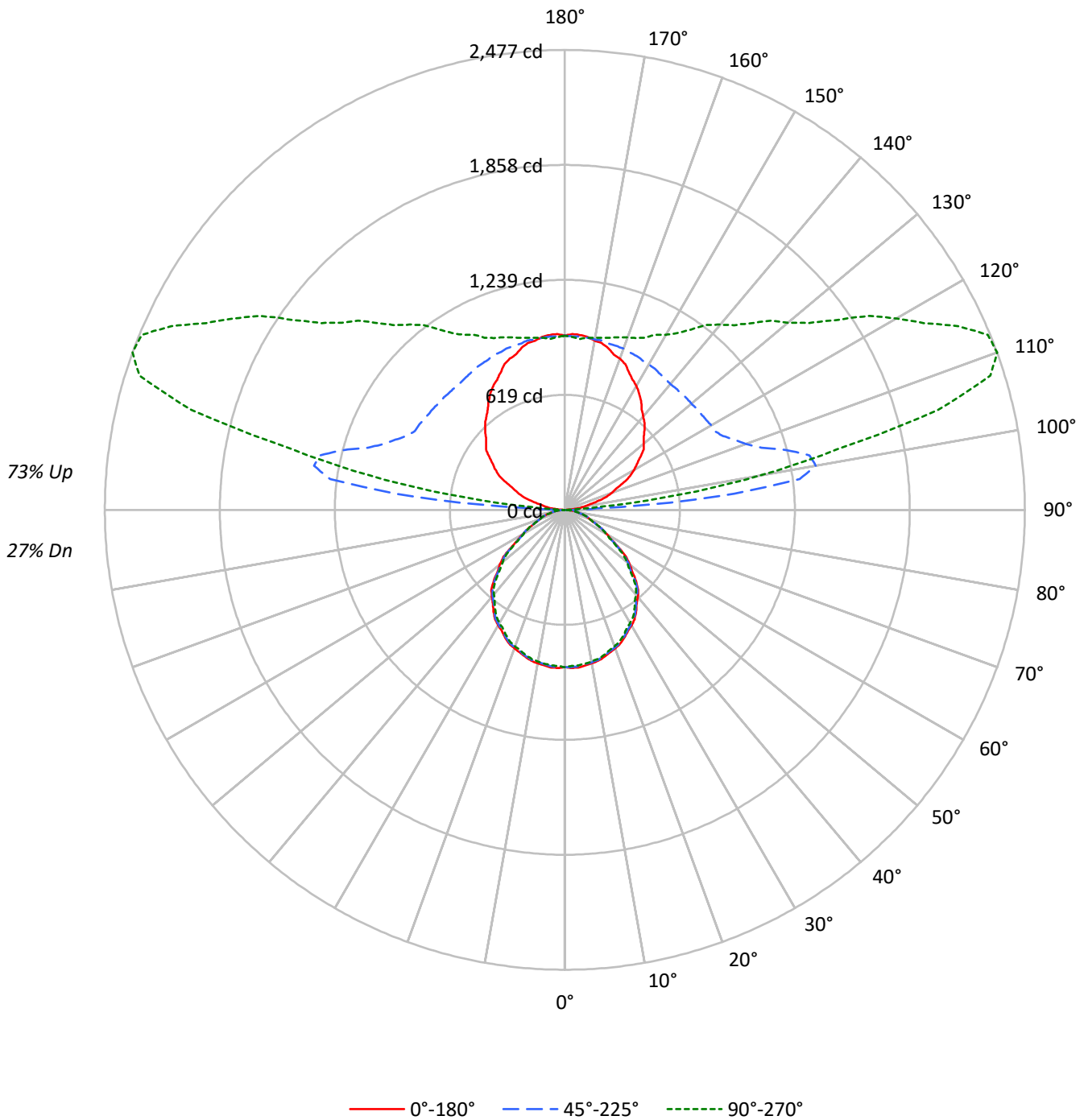
Lumens per Lamp: N/A
Luminaire Lumens: 7945.8 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62
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	89	85	82	83	79	76	73	62	60	58	46	44	43	31	30	30	23
2	85	77	72	67	75	69	65	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	69	61	55	51	48	44	41	36	33	31	24	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	26	22	20	19	14
5	65	54	46	40	58	48	42	37	38	33	30	29	25	23	20	18	16	12
6	59	48	40	35	53	43	37	32	34	29	26	26	22	20	18	16	14	11
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	36	28	24	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	26	21	39	29	23	19	23	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7819	7819	7819
5°	7889	7829	7788
10°	7864	7810	7768
15°	7830	7781	7739
20°	7790	7740	7683
25°	7736	7684	7594
30°	7652	7598	7488
35°	7540	7473	7366
40°	7367	7288	7157
45°	7067	6943	6801
50°	6538	6380	6255
55°	5707	5577	5459
60°	4809	4768	4674
65°	4159	4174	4144
70°	3820	3839	3839
75°	3668	3668	3697
80°	3454	3491	3454
85°	2784	3091	3091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.1	1.0
10°-20°	229.3	2.9
20°-30°	345.8	4.4
30°-40°	412.1	5.2
40°-50°	406.3	5.1
50°-60°	310.5	3.9
60°-70°	192.1	2.4
70°-80°	109.1	1.4
80°-90°	33.2	0.4
90°-100°	427.5	5.4
100°-110°	1216.3	15.3
110°-120°	1165.4	14.7
120°-130°	922.3	11.6
130°-140°	740.3	9.3
140°-150°	579.6	7.3
150°-160°	424.1	5.3
160°-170°	262.7	3.3
170°-180°	89.1	1.1
0°-30°	655.3	8.2
0°-40°	1067.3	13.4
0°-60°	1784.1	22.5
0°-90°	2118.6	26.7
90°-120°	2809.1	35.4
90°-150°	5051.4	63.6
90°-180°	5827.0	73.3
0°-180°	7945.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	848	848	848	848	848	
5°	852	843	845	842	841	81
15°	820	811	815	812	810	231
25°	760	751	755	747	746	350
35°	669	662	664	655	654	418
45°	542	534	532	523	521	415
55°	355	349	347	341	339	318
65°	190	189	191	190	190	193
75°	103	103	103	104	104	109
85°	26	28	29	29	29	31
90°	0	0	0	0	0	3
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.5	847.5	847.5	847.5	847.5
2.5°	852.7	845.3	847.5	845.6	841.6
5°	851.8	842.6	845.3	842.3	840.9
7.5°	845.3	836.1	838.8	835.9	835.1
10°	839.4	830.9	833.6	830.6	829.2
12.5°	833.0	823.9	827.2	823.6	822.2
15°	819.7	811.2	814.6	811.7	810.2
17.5°	805.1	796.0	799.4	796.0	794.2
20°	793.4	784.9	788.3	783.2	782.5
22.5°	780.6	772.0	775.5	768.6	768.5
25°	759.9	750.6	754.8	746.7	746.0
27.5°	735.2	726.6	730.1	721.9	721.0
30°	718.3	709.7	713.2	704.4	702.9
32.5°	699.0	691.0	693.9	685.1	684.2
35°	669.4	661.5	663.5	654.7	654.0
37.5°	635.6	628.5	629.6	620.0	619.3
40°	611.7	604.6	605.1	594.9	594.2
42.5°	585.4	578.3	577.7	567.4	566.7
45°	541.6	534.5	532.1	522.6	521.2
47.5°	491.7	484.5	480.2	472.4	471.4
50°	455.5	448.3	444.5	437.9	435.8
52.5°	416.4	409.2	406.0	400.0	397.8
55°	354.8	349.0	346.7	340.8	339.4
57.5°	296.2	292.4	291.7	286.0	285.4
60°	260.6	258.4	258.4	253.3	253.3
62.5°	230.2	228.7	229.8	226.4	225.8
65°	190.5	189.1	191.2	189.8	189.8
67.5°	159.1	159.1	160.4	159.9	159.9
70°	141.6	141.6	142.3	142.3	142.3
72.5°	125.8	125.3	127.2	127.1	126.6
75°	102.9	102.9	102.9	103.7	103.7
77.5°	80.1	80.3	80.9	80.7	80.1
80°	65.0	65.7	65.7	65.0	65.0
82.5°	49.8	50.5	50.5	50.4	49.8
85°	26.3	27.7	29.2	29.2	29.2
87.5°	7.6	9.9	11.7	11.7	11.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)