

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: P523881

Luminaire Tested: **SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523881
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (3500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7500.3 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

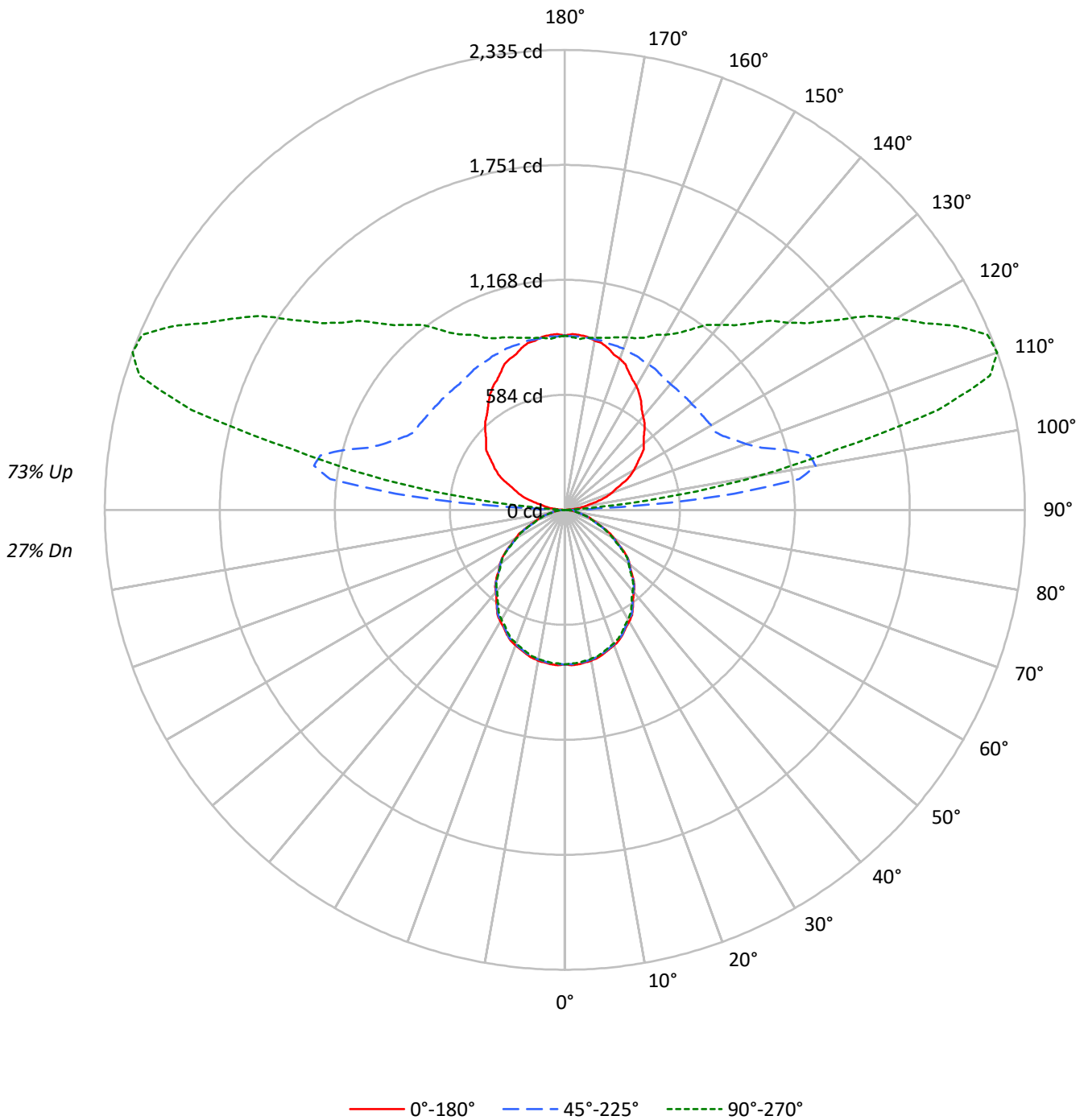
Input Watts (W): 62.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
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	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19		
3	77	68	61	56	69	61	55	50	48	44	40	36	33	31	24	23	21	16		
4	70	60	53	47	63	54	48	43	42	38	34	32	29	26	22	20	18	14		
5	65	53	46	40	57	48	41	36	38	33	29	28	25	23	19	18	16	12		
6	59	48	40	34	53	43	36	31	34	29	26	26	22	20	18	16	14	11		
7	55	43	35	30	49	39	32	27	31	26	22	23	20	17	16	14	12	10		
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	15	13	11	9		
9	47	35	28	23	42	32	26	21	25	21	18	19	16	14	14	12	10	8		
10	44	32	25	21	39	29	23	19	23	19	16	18	15	12	13	11	9	7		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7240	7240	7240
5°	7293	7249	7223
10°	7281	7230	7197
15°	7233	7193	7154
20°	7185	7145	7091
25°	7100	7051	6980
30°	6968	6931	6844
35°	6786	6740	6654
40°	6569	6528	6453
45°	6390	6345	6281
50°	6160	6120	6061
55°	5841	5763	5720
60°	5318	5165	5139
65°	4685	4488	4475
70°	4044	3876	3876
75°	3483	3433	3383
80°	3071	3108	3034
85°	2403	2625	2625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	1.0
10°-20°	211.9	2.8
20°-30°	317.4	4.2
30°-40°	372.3	5.0
40°-50°	373.4	5.0
50°-60°	318.5	4.2
60°-70°	207.7	2.8
70°-80°	104.2	1.4
80°-90°	28.9	0.4
90°-100°	402.9	5.4
100°-110°	1146.3	15.3
110°-120°	1098.3	14.6
120°-130°	869.3	11.6
130°-140°	697.7	9.3
140°-150°	546.2	7.3
150°-160°	399.7	5.3
160°-170°	247.6	3.3
170°-180°	84.0	1.1
0°-30°	603.5	8.0
0°-40°	975.7	13.0
0°-60°	1667.7	22.2
0°-90°	2008.5	26.8
90°-120°	2647.5	35.3
90°-150°	4760.6	63.5
90°-180°	5492.0	73.2
0°-180°	7500.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	785	785	785	785	785	
5°	788	780	783	780	780	75
15°	757	750	753	750	749	214
25°	697	689	693	686	686	321
35°	602	596	598	592	591	376
45°	490	486	486	481	481	377
55°	363	362	358	356	356	323
65°	215	210	206	204	205	214
75°	98	98	96	96	95	106
85°	23	25	25	25	25	27
90°	0	0	0	0	0	3
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	784.7	784.7	784.7	784.7	784.7
2.5°	789.7	783.2	784.7	783.6	780.3
5°	787.5	780.1	782.7	779.9	779.9
7.5°	782.1	774.1	776.6	773.9	773.7
10°	777.2	769.1	771.7	768.9	768.2
12.5°	770.0	762.0	765.1	761.8	761.6
15°	757.2	749.8	753.1	750.3	749.0
17.5°	742.8	734.7	738.7	734.8	734.3
20°	731.8	723.7	727.7	722.2	722.2
22.5°	718.6	710.5	715.0	707.8	707.8
25°	697.4	689.3	692.6	686.4	685.7
27.5°	672.2	664.3	667.7	660.7	660.5
30°	654.1	646.7	650.6	643.0	642.4
32.5°	634.3	627.4	630.3	622.7	622.0
35°	602.5	596.4	598.4	591.5	590.8
37.5°	569.1	562.9	565.1	559.1	558.9
40°	545.4	541.4	542.0	537.1	535.8
42.5°	523.4	518.8	519.4	514.6	514.3
45°	489.7	486.3	486.3	481.4	481.4
47.5°	453.9	451.4	450.6	446.6	446.5
50°	429.2	427.1	426.4	423.0	422.3
52.5°	403.3	402.4	400.0	397.1	397.0
55°	363.1	361.8	358.3	356.2	355.6
57.5°	319.5	316.8	312.9	309.9	310.5
60°	288.2	285.5	279.9	278.5	278.5
62.5°	257.9	254.7	249.1	247.2	248.3
65°	214.6	210.5	205.6	204.3	205.0
67.5°	175.2	171.6	166.3	166.3	165.8
70°	149.9	147.9	143.7	143.7	143.7
72.5°	127.4	126.4	123.4	123.4	122.8
75°	97.7	97.7	96.3	95.6	94.9
77.5°	73.2	73.4	72.8	72.1	70.8
80°	57.8	59.1	58.5	57.8	57.1
82.5°	43.5	44.8	44.7	43.5	43.3
85°	22.7	24.7	24.8	24.8	24.8
87.5°	6.1	8.2	8.8	8.8	9.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)