

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: P563662

Luminaire Tested: **SQ4-PP3-125U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563662
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-125U-050D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

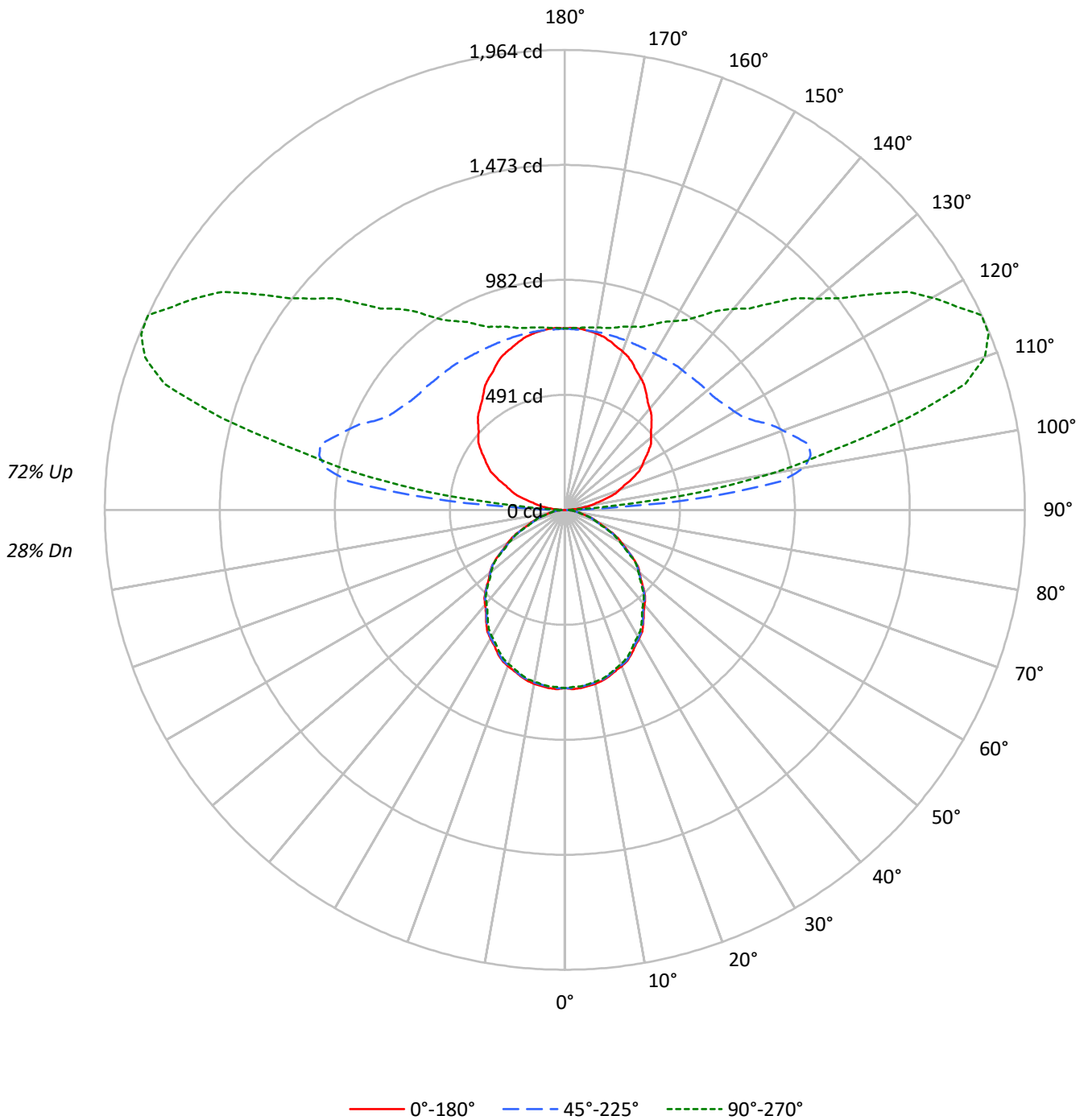
Lumens per Lamp: N/A
Luminaire Lumens: 6950.5 lumens
Efficiency: N/A
Efficacy: 145.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 47.9
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	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	77	74	62	60	58	47	45	44	32	31	31	24
2	85	78	72	67	76	70	65	61	55	51	48	41	39	37	28	27	26	20
3	77	68	61	56	69	61	55	51	48	44	41	36	34	31	25	23	22	17
4	71	60	53	47	63	54	48	43	43	38	35	32	29	27	22	21	19	15
5	65	54	46	40	58	48	42	37	38	33	30	29	26	23	20	18	17	13
6	60	48	40	35	53	43	37	32	34	29	26	26	23	20	18	16	15	11
7	55	43	36	30	49	39	32	28	31	26	23	24	20	18	17	15	13	10
8	51	39	32	26	45	35	29	24	28	23	20	22	18	16	15	13	12	9
9	47	35	28	23	42	32	26	22	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	13	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7027	7027	7027
5°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6891	6843	6775
30°	6763	6728	6642
35°	6586	6540	6458
40°	6375	6335	6263
45°	6202	6157	6097
50°	5978	5941	5882
55°	5668	5594	5551
60°	5161	5014	4988
65°	4547	4357	4342
70°	3925	3763	3763
75°	3379	3333	3283
80°	2981	3013	2943
85°	2329	2541	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	1.0
10°-20°	205.6	3.0
20°-30°	308.0	4.4
30°-40°	361.3	5.2
40°-50°	362.4	5.2
50°-60°	309.2	4.4
60°-70°	201.6	2.9
70°-80°	101.2	1.5
80°-90°	29.8	0.4
90°-100°	362.3	5.2
100°-110°	975.9	14.0
110°-120°	1024.2	14.7
120°-130°	831.1	12.0
130°-140°	651.8	9.4
140°-150°	500.4	7.2
150°-160°	359.8	5.2
160°-170°	219.8	3.2
170°-180°	74.1	1.1
0°-30°	585.7	8.4
0°-40°	947.0	13.6
0°-60°	1618.6	23.3
0°-90°	1951.2	28.1
90°-120°	2362.3	34.0
90°-150°	4345.6	62.5
90°-180°	4999.0	71.9
0°-180°	6950.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	757	760	757	757	73
15°	735	728	731	728	727	207
25°	677	669	672	666	666	311
35°	585	579	581	574	573	365
45°	475	472	472	467	467	366
55°	352	351	348	346	345	313
65°	208	204	200	198	199	208
75°	95	95	94	93	92	103
85°	22	24	24	24	24	26
90°	2	6	12	13	13	5
95°	55	197	594	304	210	58
105°	180	281	1079	1615	1515	190
115°	319	390	899	1736	1964	314
125°	435	500	807	1364	1605	389
135°	524	585	784	1100	1246	404
145°	606	653	774	941	1010	380
155°	688	713	768	844	871	317
165°	746	754	770	801	805	210
175°	775	774	772	782	780	74
180°	774	774	774	774	774	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.6	761.6	761.6	761.6	761.6
2.5°	766.4	760.2	761.6	760.5	757.4
5°	764.3	757.1	759.6	757.0	757.0
7.5°	759.1	751.3	753.7	751.1	750.9
10°	754.3	746.5	748.9	746.3	745.6
12.5°	747.3	739.5	742.5	739.3	739.2
15°	734.9	727.7	730.9	728.2	726.9
17.5°	720.9	713.1	716.9	713.2	712.6
20°	710.2	702.4	706.2	700.9	700.9
22.5°	697.4	689.6	693.9	687.0	687.0
25°	676.9	669.0	672.2	666.2	665.5
27.5°	652.4	644.7	648.0	641.2	641.1
30°	634.8	627.6	631.5	624.1	623.5
32.5°	615.6	608.9	611.7	604.3	603.7
35°	584.7	578.9	580.7	574.0	573.4
37.5°	552.3	546.3	548.4	542.7	542.4
40°	529.3	525.4	526.0	521.3	520.0
42.5°	508.0	503.5	504.1	499.4	499.2
45°	475.3	472.0	471.9	467.3	467.3
47.5°	440.6	438.1	437.4	433.5	433.3
50°	416.5	414.6	413.9	410.5	409.8
52.5°	391.4	390.5	388.2	385.4	385.3
55°	352.4	351.1	347.8	345.8	345.1
57.5°	310.1	307.5	303.7	300.8	301.3
60°	279.7	277.1	271.7	270.3	270.3
62.5°	250.3	247.2	241.8	239.9	241.0
65°	208.3	204.3	199.6	198.3	198.9
67.5°	170.1	166.6	161.4	161.4	160.9
70°	145.5	143.6	139.5	139.5	139.5
72.5°	123.6	122.7	119.8	119.7	119.2
75°	94.8	94.8	93.5	92.8	92.1
77.5°	71.0	71.3	70.6	69.9	68.8
80°	56.1	57.4	56.7	56.1	55.4
82.5°	42.2	43.5	43.4	42.2	42.1
85°	22.0	24.0	24.0	24.0	24.0
87.5°	6.3	9.1	10.9	11.1	11.6
90°	2.0	5.8	11.8	12.8	12.8
92.5°	24.1	85.0	168.1	80.9	56.2
95°	55.2	197.0	593.9	303.7	210.1
97.5°	88.2	225.6	931.5	778.2	586.8
100°	113.4	236.9	1038.8	1086.9	901.7
102.5°	137.9	252.9	1074.3	1318.1	1166.1
105°	180.5	280.9	1079.3	1614.6	1515.3
107.5°	220.8	310.3	1033.3	1767.0	1792.7
110°	247.6	332.5	991.5	1814.4	1907.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	354.7	951.2	1803.9	1957.7
115°	318.6	390.0	898.7	1736.5	1964.2
117.5°	357.5	424.5	858.1	1629.0	1882.5
120°	382.8	447.4	837.6	1551.8	1812.2
122.5°	404.9	468.7	822.6	1472.9	1732.5
125°	435.1	499.7	807.0	1363.9	1605.1
127.5°	464.1	527.7	797.1	1267.8	1483.1
130°	481.4	545.1	793.2	1212.8	1401.8
132.5°	498.8	561.7	789.2	1164.3	1337.9
135°	523.8	584.6	784.3	1100.3	1246.0
137.5°	547.7	606.0	781.7	1046.1	1165.7
140°	564.3	620.2	779.4	1012.7	1120.7
142.5°	581.7	633.7	777.8	981.5	1072.5
145°	605.7	653.0	774.4	940.7	1010.2
147.5°	631.8	672.9	771.1	906.5	961.1
150°	649.1	684.8	769.5	885.0	930.3
152.5°	664.9	696.0	768.7	867.4	904.2
155°	687.6	712.7	767.5	844.1	871.1
157.5°	707.5	727.0	767.7	827.7	845.8
160°	720.2	736.6	768.5	818.1	831.6
162.5°	731.2	744.5	769.3	810.2	819.8
165°	745.8	754.5	770.5	801.1	805.0
167.5°	757.6	762.7	771.5	794.2	795.7
170°	765.5	767.5	771.5	790.2	790.2
172.5°	770.3	770.7	772.2	786.3	786.3
175°	775.4	774.4	771.5	782.3	780.3
177.5°	777.6	776.0	772.1	778.3	776.8
180°	774.4	774.4	774.4	774.4	774.4

(END OF REPORT)