

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: P523886

Luminaire Tested: **SQ4-PP3-125U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523886
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

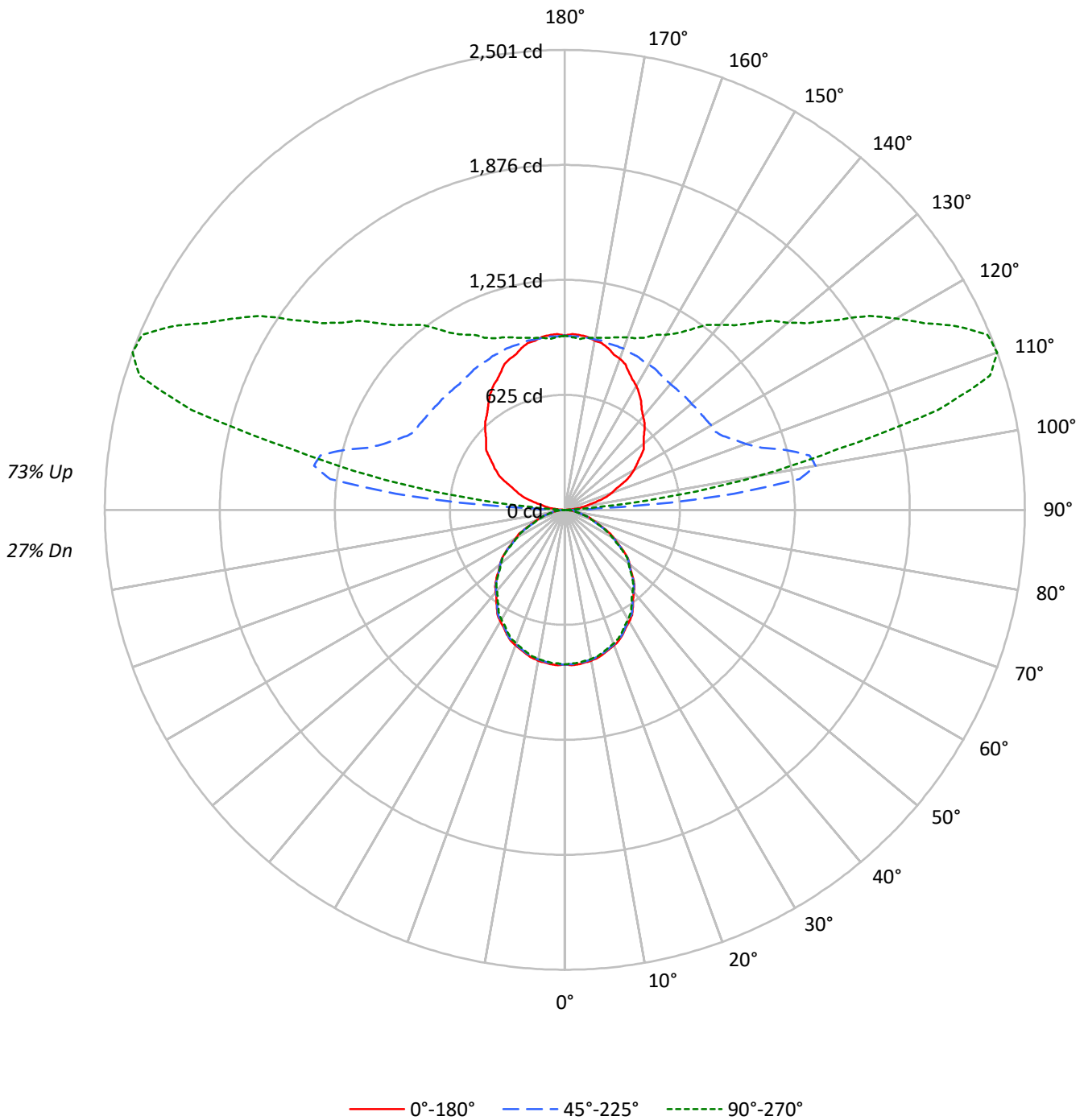
Lumens per Lamp: N/A
Luminaire Lumens: 8033.8 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 61.7
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	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°	7756	7756	7756
5°	7812	7765	7737
10°	7799	7744	7709
15°	7747	7705	7663
20°	7696	7652	7594
25°	7604	7552	7477
30°	7464	7424	7331
35°	7268	7219	7127
40°	7036	6992	6912
45°	6844	6795	6729
50°	6598	6555	6492
55°	6257	6174	6127
60°	5696	5532	5506
65°	5017	4809	4792
70°	4332	4154	4154
75°	3729	3675	3625
80°	3289	3326	3246
85°	2572	2805	2805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.5	1.0
10°-20°	227.0	2.8
20°-30°	339.9	4.2
30°-40°	398.7	5.0
40°-50°	400.0	5.0
50°-60°	341.2	4.2
60°-70°	222.5	2.8
70°-80°	111.6	1.4
80°-90°	30.9	0.4
90°-100°	431.5	5.4
100°-110°	1227.8	15.3
110°-120°	1176.4	14.6
120°-130°	931.1	11.6
130°-140°	747.3	9.3
140°-150°	585.1	7.3
150°-160°	428.1	5.3
160°-170°	265.2	3.3
170°-180°	90.0	1.1
0°-30°	646.4	8.0
0°-40°	1045.1	13.0
0°-60°	1786.3	22.2
0°-90°	2151.4	26.8
90°-120°	2835.8	35.3
90°-150°	5099.2	63.5
90°-180°	5882.0	73.2
0°-180°	8033.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	841	841	841	841	841	
5°	844	836	838	835	835	80
15°	811	803	807	804	802	229
25°	747	738	742	735	734	343
35°	645	639	641	634	633	403
45°	524	521	521	516	516	404
55°	389	388	384	382	381	346
65°	230	226	220	219	220	229
75°	105	105	103	102	102	113
85°	24	26	26	26	26	29
90°	0	0	0	0	0	3
95°	47	186	835	289	178	54
105°	191	289	1251	2210	2101	202
115°	355	429	949	2010	2360	349
125°	500	555	906	1503	1797	448
135°	612	663	895	1269	1435	472
145°	722	759	902	1099	1197	451
155°	825	844	924	993	1033	381
165°	911	914	934	954	969	256
175°	954	949	945	940	933	90
180°	947	947	947	947	947	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	840.6	840.6	840.6	840.6	840.6
2.5°	845.9	838.9	840.6	839.3	835.8
5°	843.5	835.6	838.4	835.4	835.4
7.5°	837.8	829.1	831.9	828.9	828.8
10°	832.5	823.8	826.6	823.6	822.9
12.5°	824.8	816.2	819.5	816.0	815.8
15°	811.1	803.2	806.7	803.7	802.3
17.5°	795.6	787.0	791.2	787.1	786.5
20°	783.8	775.2	779.4	773.5	773.5
22.5°	769.7	761.0	765.9	758.2	758.2
25°	747.0	738.4	741.8	735.2	734.5
27.5°	720.0	711.5	715.2	707.7	707.5
30°	700.6	692.7	696.9	688.8	688.1
32.5°	679.4	672.0	675.1	667.0	666.3
35°	645.3	638.9	640.9	633.5	632.8
37.5°	609.5	602.9	605.3	598.9	598.6
40°	584.2	579.9	580.5	575.3	573.9
42.5°	560.6	555.7	556.3	551.2	550.9
45°	524.5	520.9	520.8	515.7	515.7
47.5°	486.2	483.5	482.7	478.4	478.3
50°	459.7	457.5	456.7	453.0	452.3
52.5°	432.0	431.0	428.5	425.4	425.2
55°	389.0	387.5	383.8	381.6	380.9
57.5°	342.3	339.4	335.2	332.0	332.5
60°	308.7	305.8	299.8	298.4	298.4
62.5°	276.3	272.8	266.8	264.8	265.9
65°	229.8	225.5	220.3	218.8	219.5
67.5°	187.7	183.8	178.1	178.1	177.5
70°	160.6	158.4	154.0	154.0	154.0
72.5°	136.4	135.4	132.2	132.1	131.6
75°	104.6	104.6	103.1	102.4	101.7
77.5°	78.4	78.7	77.9	77.2	75.9
80°	61.9	63.3	62.6	61.9	61.1
82.5°	46.6	48.0	47.9	46.6	46.4
85°	24.3	26.5	26.5	26.5	26.5
87.5°	6.5	8.8	9.4	9.4	10.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.4	76.4	177.2	51.6	38.9
95°	46.8	185.9	835.4	289.1	178.2
97.5°	86.1	217.7	1286.6	920.6	630.9
100°	113.4	236.6	1384.5	1402.4	1080.2
102.5°	143.7	257.0	1362.9	1795.1	1513.8
105°	190.8	289.4	1251.3	2210.2	2101.0
107.5°	238.7	327.1	1120.9	2327.2	2424.4
110°	271.9	354.6	1046.0	2282.4	2500.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	303.5	382.1	995.6	2176.5	2487.8
115°	354.7	428.6	948.8	2010.0	2360.3
117.5°	399.7	469.0	921.1	1827.9	2199.0
120°	435.7	493.8	918.2	1723.8	2079.4
122.5°	464.5	522.6	911.0	1632.5	1962.8
125°	500.5	555.1	905.6	1502.8	1796.8
127.5°	539.8	590.8	902.7	1425.3	1667.5
130°	559.9	611.0	898.4	1371.3	1582.5
132.5°	581.5	631.2	898.4	1329.1	1523.5
135°	612.1	663.2	894.8	1269.4	1434.9
137.5°	640.9	690.6	894.4	1218.9	1361.8
140°	662.5	713.6	893.0	1177.0	1314.3
142.5°	687.0	729.6	897.3	1143.5	1266.7
145°	722.0	758.9	902.0	1098.7	1197.3
147.5°	751.8	787.8	909.9	1053.4	1138.6
150°	777.8	802.4	912.8	1038.4	1098.2
152.5°	797.9	824.0	915.7	1018.1	1073.7
155°	824.6	843.9	923.6	992.9	1033.4
157.5°	857.7	869.3	925.4	981.5	1010.4
160°	875.0	883.8	932.6	972.8	997.4
162.5°	885.1	895.3	934.0	965.4	984.4
165°	911.0	914.5	934.4	954.5	968.6
167.5°	928.6	925.5	942.7	951.8	957.4
170°	934.4	932.6	939.8	941.8	948.8
172.5°	947.4	941.4	944.1	938.8	944.5
175°	954.2	948.9	945.2	939.6	932.6
177.5°	957.1	948.6	944.1	938.4	939.8
180°	947.0	947.0	947.0	947.0	947.0

(END OF REPORT)