

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: P562999

Luminaire Tested: **SQ4-PC3-125U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562999
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-125U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

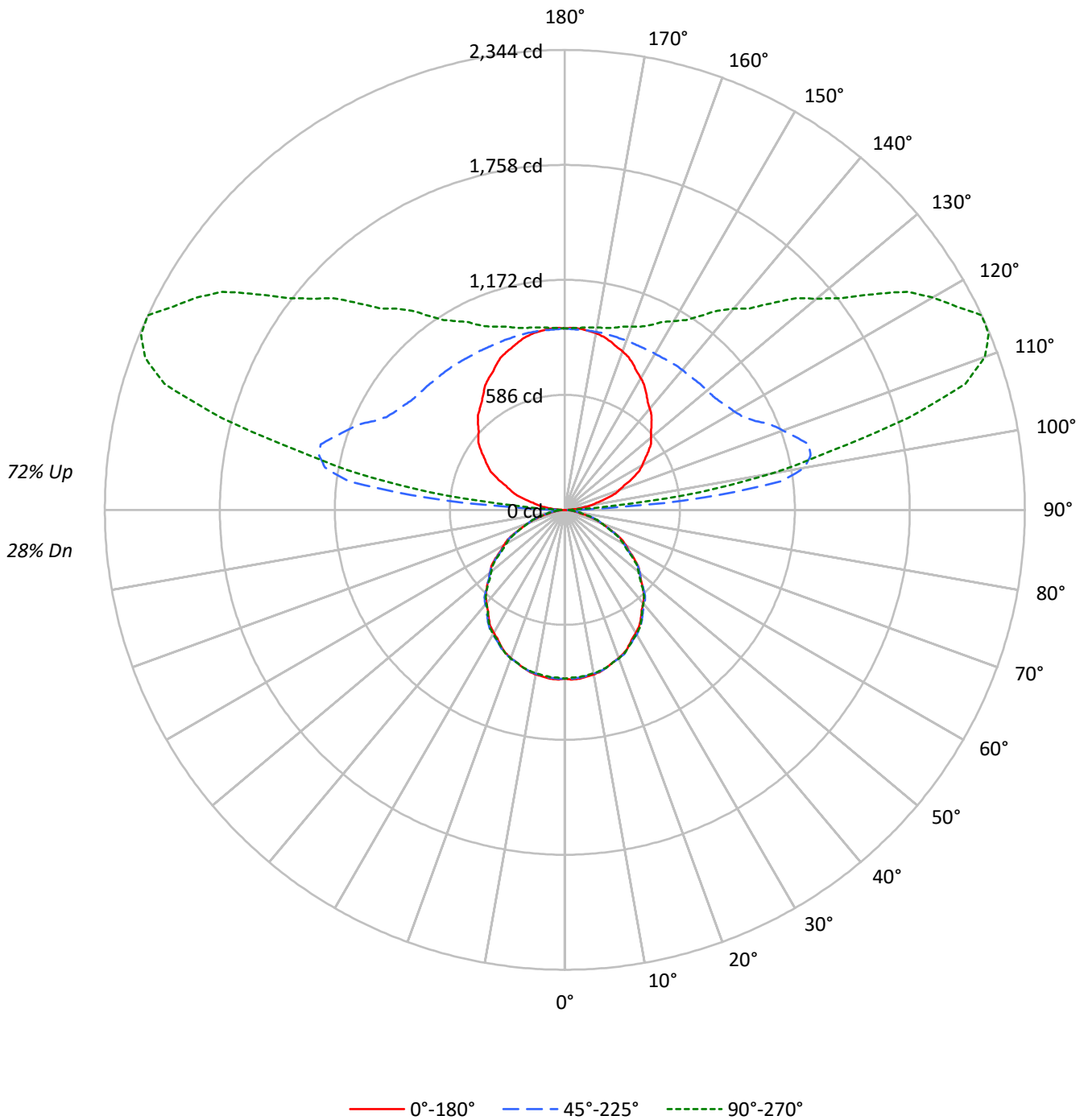
Lumens per Lamp: N/A
Luminaire Lumens: 8318.5 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 74.2
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	71	71	71	53	53	53	36	36	36	28
1	93	89	85	82	83	80	76	74	62	60	58	47	45	44	32	31	31	24
2	85	77	72	67	75	70	65	60	55	51	48	41	39	37	28	27	26	20
3	77	68	61	55	69	61	55	50	48	44	40	36	33	31	25	23	22	17
4	70	60	52	47	63	54	48	43	43	38	34	32	29	26	22	20	19	14
5	65	53	46	40	57	48	41	36	38	33	29	29	25	23	20	18	16	13
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	13	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	26	21	17	20	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°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5209	5246	5230
30°	5145	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4853
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4059	3979	3944
70°	3554	3582	3568
75°	2859	3163	3182
80°	2033	2681	2710
85°	1235	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	1.0
10°-20°	233.8	2.8
20°-30°	354.0	4.3
30°-40°	424.4	5.1
40°-50°	432.7	5.2
50°-60°	377.7	4.5
60°-70°	270.4	3.3
70°-80°	139.3	1.7
80°-90°	37.4	0.4
90°-100°	432.4	5.2
100°-110°	1164.8	14.0
110°-120°	1222.5	14.7
120°-130°	992.0	11.9
130°-140°	778.0	9.4
140°-150°	597.3	7.2
150°-160°	429.5	5.2
160°-170°	262.4	3.2
170°-180°	88.5	1.1
0°-30°	669.2	8.0
0°-40°	1093.6	13.1
0°-60°	1904.1	22.9
0°-90°	2351.2	28.3
90°-120°	2819.7	33.9
90°-150°	5187.0	62.4
90°-180°	5967.0	71.7
0°-180°	8318.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	864	855	858	856	855	82
15°	831	824	831	831	830	234
25°	768	762	773	771	771	353
35°	675	674	685	681	681	422
45°	563	561	567	559	558	433
55°	430	425	425	418	418	384
65°	279	273	273	271	271	276
75°	120	126	133	134	134	130
85°	18	27	32	33	32	24
90°	2	7	14	15	15	5
95°	66	235	709	362	251	69
105°	216	335	1288	1927	1809	227
115°	380	466	1073	2073	2344	374
125°	519	596	963	1628	1916	464
135°	625	698	936	1313	1487	483
145°	723	779	924	1123	1206	453
155°	821	851	916	1008	1040	378
165°	890	901	920	956	961	251
175°	926	924	921	934	931	88
180°	924	924	924	924	924	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.7	860.7	860.7	860.7	860.7
2.5°	865.8	858.3	860.7	858.7	855.6
5°	863.9	855.3	858.3	855.9	855.1
7.5°	857.7	849.1	853.1	851.4	850.7
10°	851.9	843.4	848.0	846.3	845.6
12.5°	844.3	836.3	841.6	840.0	839.8
15°	831.2	824.2	831.2	831.2	830.4
17.5°	814.8	808.4	815.9	816.4	815.9
20°	803.3	796.3	805.7	804.9	805.7
22.5°	789.3	783.5	793.6	791.5	792.3
25°	767.5	762.0	773.0	770.6	770.6
27.5°	741.6	737.7	749.8	747.2	747.2
30°	724.4	720.5	733.2	730.0	730.0
32.5°	705.3	702.6	714.7	710.9	710.9
35°	675.0	673.5	685.4	680.6	680.6
37.5°	643.8	642.4	653.2	647.4	645.5
40°	620.8	620.0	629.6	623.2	623.2
42.5°	597.9	597.1	605.4	597.7	597.7
45°	562.6	561.1	566.6	559.4	557.9
47.5°	524.2	522.7	526.1	518.3	517.5
50°	498.1	496.5	498.1	490.9	490.1
52.5°	471.3	468.5	468.8	461.6	461.4
55°	430.4	424.9	424.8	418.4	418.4
57.5°	387.0	379.8	380.5	375.0	374.2
60°	357.0	349.2	349.9	345.1	344.3
62.5°	327.7	318.7	320.5	315.1	315.0
65°	278.9	272.7	273.4	271.0	271.0
67.5°	232.1	226.3	230.5	228.6	228.4
70°	197.6	193.7	199.2	199.2	198.4
72.5°	165.8	165.6	172.5	172.5	172.9
75°	120.3	125.8	133.1	133.9	133.9
77.5°	80.3	90.0	98.0	98.3	98.2
80°	57.4	68.3	75.7	77.3	76.5
82.5°	38.9	50.4	56.6	58.2	57.4
85°	17.5	26.9	31.9	32.7	31.9
87.5°	5.6	12.1	15.6	15.8	14.5
90°	2.4	7.0	14.1	15.3	15.3
92.5°	28.7	101.5	200.7	96.6	67.1
95°	65.9	235.2	708.9	362.5	250.8
97.5°	105.3	269.2	1111.8	928.8	700.4
100°	135.4	282.8	1240.0	1297.3	1076.3
102.5°	164.6	301.9	1282.3	1573.3	1391.9
105°	215.5	335.2	1288.2	1927.3	1808.7
107.5°	263.5	370.4	1233.4	2109.2	2139.8
110°	295.6	396.9	1183.4	2165.7	2277.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	329.5	423.4	1135.4	2153.2	2336.7
115°	380.3	465.5	1072.7	2072.8	2344.5
117.5°	426.7	506.6	1024.2	1944.4	2247.0
120°	456.9	534.0	999.7	1852.3	2163.1
122.5°	483.3	559.5	981.8	1758.0	2068.0
125°	519.3	596.4	963.2	1628.0	1915.9
127.5°	553.9	629.9	951.5	1513.3	1770.3
130°	574.6	650.6	946.7	1447.6	1673.3
132.5°	595.4	670.4	942.0	1389.7	1597.0
135°	625.3	697.8	936.1	1313.4	1487.2
137.5°	653.8	723.3	933.1	1248.6	1391.4
140°	673.6	740.3	930.3	1208.7	1337.7
142.5°	694.3	756.5	928.4	1171.5	1280.2
145°	723.0	779.4	924.4	1122.9	1205.8
147.5°	754.1	803.1	920.4	1082.0	1147.2
150°	774.8	817.4	918.5	1056.3	1110.4
152.5°	793.7	830.7	917.5	1035.4	1079.3
155°	820.7	850.7	916.1	1007.5	1039.8
157.5°	844.5	867.8	916.4	988.0	1009.6
160°	859.6	879.2	917.3	976.5	992.7
162.5°	872.8	888.7	918.2	967.0	978.5
165°	890.2	900.6	919.7	956.3	960.9
167.5°	904.4	910.3	920.8	948.0	949.8
170°	913.8	916.1	920.8	943.2	943.2
172.5°	919.4	919.9	921.8	938.5	938.5
175°	925.5	924.4	920.8	933.7	931.4
177.5°	928.1	926.3	921.5	929.0	927.2
180°	924.4	924.4	924.4	924.4	924.4

(END OF REPORT)