

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: P563026

Luminaire Tested: **SQ4-PC3-125U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563026
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-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

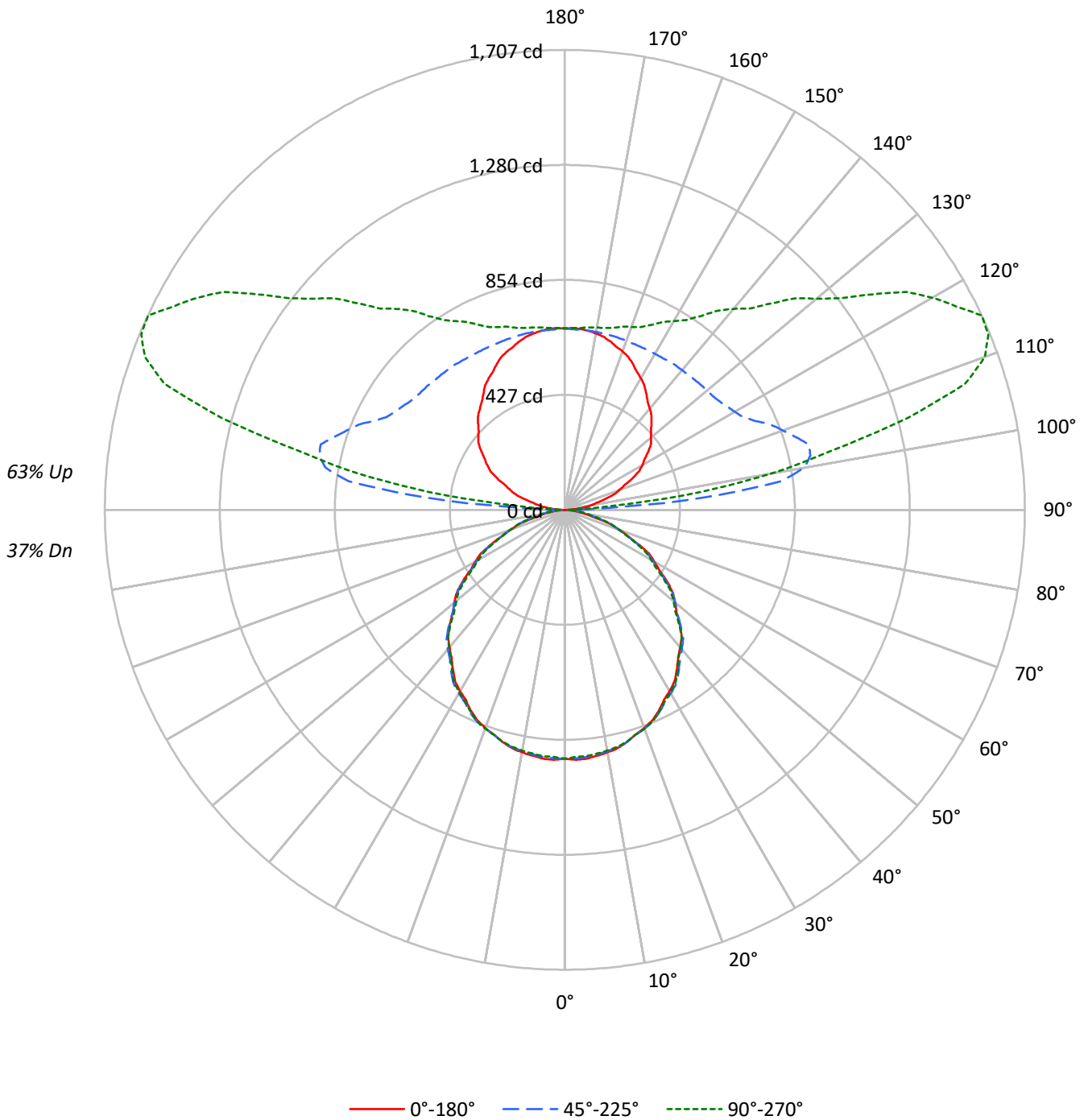
Lumens per Lamp: N/A
Luminaire Lumens: 6865.7 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	91	87	83	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	86	79	73	68	78	72	67	62	58	55	52	46	43	41	34	33	31	26
3	79	69	62	57	71	63	57	52	51	47	43	40	37	35	30	28	27	22
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	59	50	43	38	41	36	32	32	29	26	24	22	20	16
6	61	49	41	35	55	45	38	33	37	31	27	29	25	22	22	19	17	14
7	56	44	36	31	51	40	33	28	33	28	24	26	23	20	20	17	15	13
8	52	40	32	27	47	36	30	25	30	25	21	24	20	18	18	16	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8519	8519	8519
5°	8584	8529	8497
10°	8563	8523	8499
15°	8518	8518	8511
20°	8462	8487	8487
25°	8382	8443	8417
30°	8280	8380	8344
35°	8157	8282	8224
40°	8022	8136	8053
45°	7877	7932	7809
50°	7670	7670	7548
55°	7427	7330	7221
60°	7069	6927	6816
65°	6534	6403	6346
70°	5722	5767	5743
75°	4602	5090	5119
80°	3273	4314	4362
85°	1990	3620	3620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	1.3
10°-20°	250.8	3.7
20°-30°	379.8	5.5
30°-40°	455.3	6.6
40°-50°	464.3	6.8
50°-60°	405.3	5.9
60°-70°	290.2	4.2
70°-80°	149.4	2.2
80°-90°	39.4	0.6
90°-100°	314.8	4.6
100°-110°	847.9	12.4
110°-120°	889.9	13.0
120°-130°	722.1	10.5
130°-140°	566.3	8.2
140°-150°	434.8	6.3
150°-160°	312.6	4.6
160°-170°	191.0	2.8
170°-180°	64.4	0.9
0°-30°	718.0	10.5
0°-40°	1173.3	17.1
0°-60°	2042.9	29.8
0°-90°	2521.8	36.7
90°-120°	2052.6	29.9
90°-150°	3775.9	55.0
90°-180°	4344.0	63.3
0°-180°	6865.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	927	918	921	918	918	88
15°	892	884	892	892	891	251
25°	823	818	829	827	827	379
35°	724	723	735	730	730	453
45°	604	602	608	600	598	465
55°	462	456	456	449	449	412
65°	299	293	293	291	291	296
75°	129	135	143	144	144	140
85°	19	29	34	35	34	26
90°	2	5	10	11	11	4
95°	48	171	516	264	183	50
105°	157	244	938	1403	1317	165
115°	277	339	781	1509	1707	272
125°	378	434	701	1185	1395	338
135°	455	508	682	956	1083	351
145°	526	567	673	817	878	330
155°	598	619	667	733	757	275
165°	648	656	670	696	700	183
175°	674	673	670	680	678	64
180°	673	673	673	673	673	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	923.4	923.4	923.4	923.4	923.4
2.5°	928.9	920.9	923.4	921.3	918.0
5°	926.9	917.7	920.9	918.3	917.5
7.5°	920.2	911.0	915.2	913.5	912.7
10°	914.0	904.8	909.8	908.0	907.2
12.5°	905.8	897.3	902.9	901.2	901.0
15°	891.8	884.3	891.8	891.8	891.0
17.5°	874.2	867.3	875.4	875.9	875.4
20°	861.9	854.4	864.4	863.6	864.4
22.5°	846.8	840.6	851.5	849.2	850.1
25°	823.4	817.6	829.4	826.8	826.8
27.5°	795.7	791.5	804.4	801.7	801.7
30°	777.2	773.1	786.6	783.2	783.2
32.5°	756.7	753.9	766.8	762.7	762.7
35°	724.2	722.6	735.3	730.2	730.2
37.5°	690.7	689.2	700.8	694.6	692.6
40°	666.1	665.2	675.5	668.6	668.6
42.5°	641.5	640.6	649.5	641.3	641.3
45°	603.7	602.0	607.9	600.2	598.5
47.5°	562.4	560.8	564.5	556.1	555.3
50°	534.4	532.7	534.4	526.7	525.9
52.5°	505.7	502.7	502.9	495.2	495.1
55°	461.7	455.9	455.7	448.9	448.9
57.5°	415.2	407.5	408.2	402.4	401.5
60°	383.1	374.7	375.4	370.2	369.4
62.5°	351.6	341.9	343.9	338.1	337.9
65°	299.3	292.6	293.3	290.7	290.7
67.5°	249.0	242.8	247.3	245.2	245.1
70°	212.1	207.9	213.8	213.7	212.9
72.5°	177.8	177.7	185.0	185.0	185.5
75°	129.1	135.0	142.8	143.6	143.6
77.5°	86.2	96.6	105.2	105.5	105.3
80°	61.6	73.3	81.2	82.9	82.1
82.5°	41.7	54.1	60.7	62.4	61.6
85°	18.8	28.8	34.2	35.0	34.2
87.5°	5.8	12.5	15.7	15.9	14.5
90°	1.7	5.1	10.3	11.1	11.1
92.5°	20.9	73.9	146.1	70.3	48.9
95°	48.0	171.2	516.0	263.9	182.6
97.5°	76.6	196.0	809.3	676.1	509.9
100°	98.6	205.9	902.6	944.4	783.5
102.5°	119.8	219.7	933.5	1145.3	1013.2
105°	156.9	244.0	937.8	1403.0	1316.6
107.5°	191.8	269.6	897.8	1535.4	1557.7
110°	215.2	288.9	861.5	1576.5	1657.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	239.8	308.2	826.5	1567.4	1701.0
115°	276.9	338.9	780.9	1508.8	1706.6
117.5°	310.6	368.8	745.6	1415.4	1635.7
120°	332.6	388.7	727.7	1348.3	1574.6
122.5°	351.8	407.3	714.7	1279.8	1505.4
125°	378.0	434.2	701.2	1185.1	1394.6
127.5°	403.2	458.5	692.6	1101.6	1288.7
130°	418.3	473.6	689.2	1053.8	1218.1
132.5°	433.4	488.0	685.7	1011.6	1162.5
135°	455.2	508.0	681.5	956.1	1082.6
137.5°	475.9	526.5	679.2	908.9	1012.8
140°	490.3	538.9	677.2	879.9	973.8
142.5°	505.4	550.7	675.8	852.8	931.9
145°	526.3	567.4	672.9	817.4	877.8
147.5°	548.9	584.6	670.0	787.6	835.1
150°	564.0	595.0	668.6	768.9	808.3
152.5°	577.7	604.7	667.9	753.7	785.7
155°	597.5	619.2	666.9	733.4	756.9
157.5°	614.8	631.7	667.1	719.2	734.9
160°	625.7	640.0	667.7	710.9	722.6
162.5°	635.3	646.9	668.4	703.9	712.3
165°	648.0	655.6	669.5	696.1	699.5
167.5°	658.3	662.7	670.3	690.1	691.4
170°	665.2	666.8	670.3	686.6	686.6
172.5°	669.3	669.6	671.0	683.2	683.2
175°	673.7	672.9	670.3	679.7	678.0
177.5°	675.6	674.3	670.8	676.3	674.9
180°	672.9	672.9	672.9	672.9	672.9

(END OF REPORT)