

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: P563698

Luminaire Tested: **SQ4-PP3-125U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563698
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-075D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

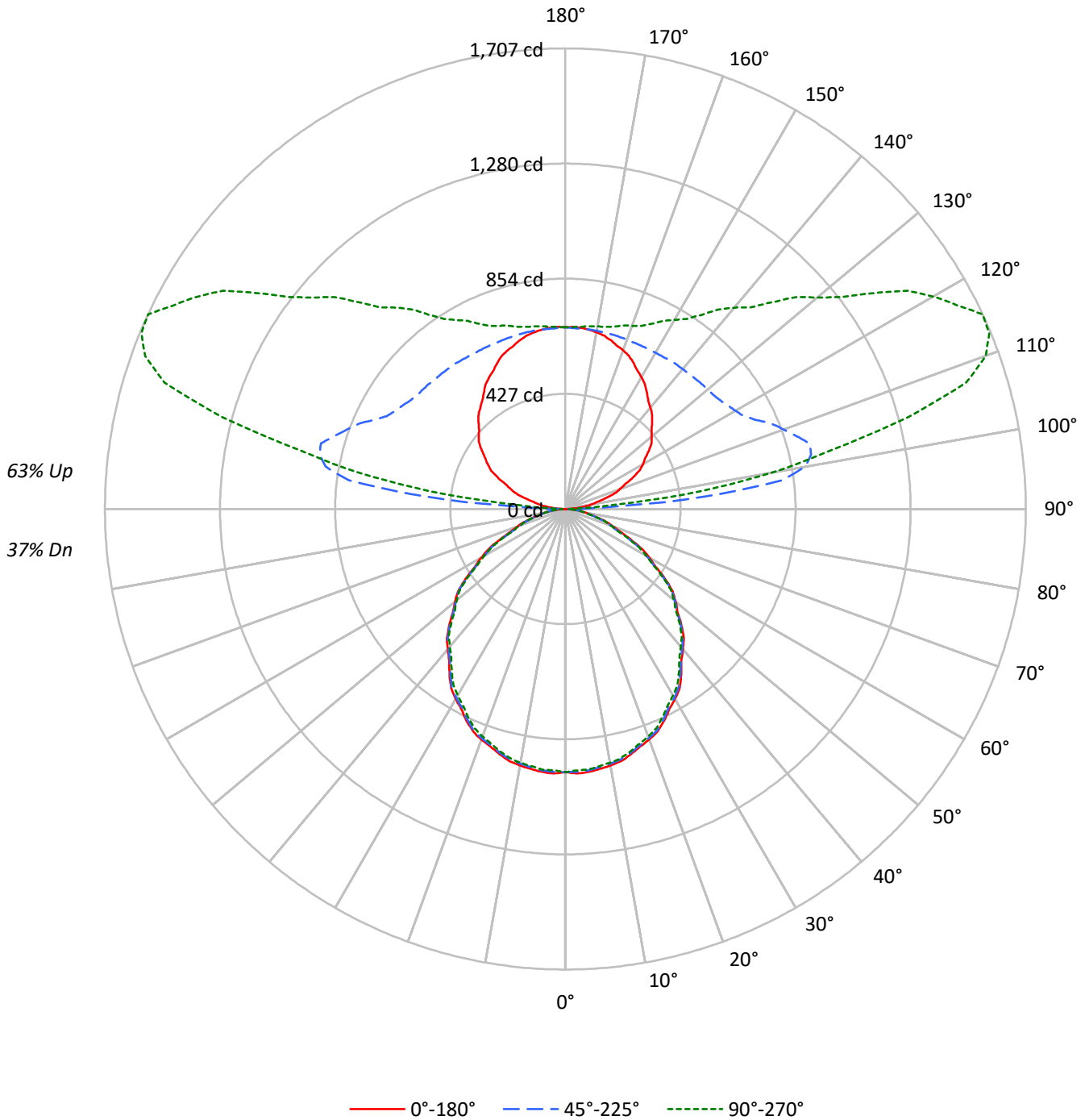
Lumens per Lamp: N/A
Luminaire Lumens: 6841.9 lumens
Efficiency: N/A
Efficacy: 122.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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	84	86	82	79	76	67	64	62	52	51	49	39	38	37	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	41	34	33	32	26
3	79	70	63	57	71	64	57	53	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	37	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	26	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8985	8946
15°	8990	8941	8892
20°	8931	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7941	7886	7808
50°	7656	7607	7534
55°	7261	7164	7110
60°	6610	6420	6388
65°	5822	5580	5560
70°	5028	4821	4821
75°	4328	4267	4206
80°	3815	3863	3772
85°	2985	3260	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	1.3
10°-20°	263.4	3.8
20°-30°	394.5	5.8
30°-40°	462.7	6.8
40°-50°	464.1	6.8
50°-60°	395.9	5.8
60°-70°	258.2	3.8
70°-80°	129.6	1.9
80°-90°	37.4	0.5
90°-100°	314.8	4.6
100°-110°	847.9	12.4
110°-120°	889.9	13.0
120°-130°	722.1	10.6
130°-140°	566.3	8.3
140°-150°	434.8	6.4
150°-160°	312.6	4.6
160°-170°	191.0	2.8
170°-180°	64.4	0.9
0°-30°	750.0	11.0
0°-40°	1212.7	17.7
0°-60°	2072.8	30.3
0°-90°	2498.0	36.5
90°-120°	2052.6	30.0
90°-150°	3775.9	55.2
90°-180°	4344.0	63.5
0°-180°	6841.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	979	970	973	969	969	93
15°	941	932	936	933	931	266
25°	867	857	861	853	852	399
35°	749	741	744	735	734	468
45°	609	604	604	598	598	469
55°	451	450	445	443	442	401
65°	267	262	256	254	255	266
75°	121	121	120	119	118	132
85°	28	31	31	31	31	33
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°	975.4	975.4	975.4	975.4	975.4
2.5°	981.5	973.5	975.4	973.9	969.9
5°	978.8	969.6	972.8	969.4	969.4
7.5°	972.1	962.1	965.3	961.9	961.7
10°	966.0	955.9	959.1	955.7	954.9
12.5°	957.1	947.1	950.9	946.8	946.7
15°	941.2	932.0	936.1	932.6	930.9
17.5°	923.2	913.2	918.1	913.3	912.6
20°	909.6	899.5	904.4	897.6	897.6
22.5°	893.1	883.1	888.7	879.8	879.8
25°	866.8	856.8	860.8	853.1	852.3
27.5°	835.5	825.7	829.9	821.2	821.0
30°	813.0	803.8	808.7	799.3	798.4
32.5°	788.3	779.8	783.4	774.0	773.1
35°	748.8	741.3	743.7	735.1	734.3
37.5°	707.3	699.6	702.3	695.0	694.6
40°	677.9	672.9	673.6	667.6	665.9
42.5°	650.5	644.9	645.6	639.6	639.3
45°	608.6	604.5	604.4	598.4	598.4
47.5°	564.2	561.0	560.1	555.1	555.0
50°	533.4	530.9	530.0	525.7	524.9
52.5°	501.3	500.1	497.2	493.6	493.4
55°	451.4	449.7	445.4	442.8	442.0
57.5°	397.2	393.8	389.0	385.2	385.9
60°	358.2	354.8	347.9	346.2	346.2
62.5°	320.6	316.6	309.6	307.3	308.6
65°	266.7	261.7	255.6	253.9	254.7
67.5°	217.8	213.3	206.7	206.7	206.0
70°	186.4	183.8	178.7	178.7	178.7
72.5°	158.3	157.1	153.4	153.3	152.7
75°	121.4	121.4	119.7	118.8	118.0
77.5°	91.0	91.3	90.4	89.6	88.0
80°	71.8	73.5	72.7	71.8	71.0
82.5°	54.0	55.7	55.6	54.0	53.9
85°	28.2	30.7	30.8	30.8	30.8
87.5°	7.9	11.2	13.0	13.2	13.9
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)