

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: P562881

Luminaire Tested: **SQ4-PC3-0U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562881
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

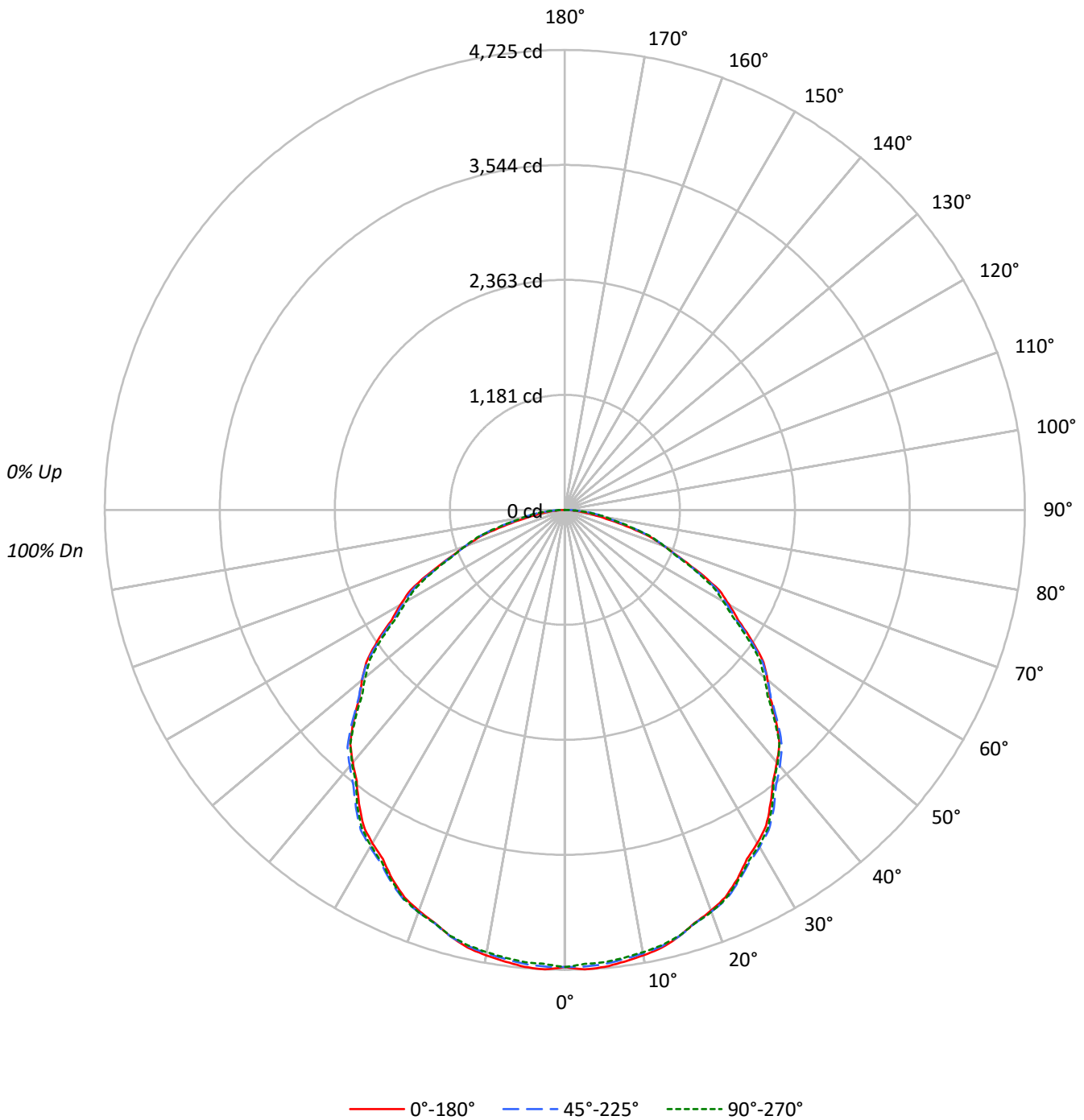
Lumens per Lamp: N/A
Luminaire Lumens: 12820.2 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 140.8
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14446	14446	14446
5°	14555	14461	14408
10°	14520	14452	14411
15°	14444	14444	14430
20°	14348	14391	14391
25°	14213	14316	14272
30°	14040	14210	14148
35°	13831	14043	13945
40°	13602	13795	13655
45°	13355	13450	13242
50°	13006	13006	12798
55°	12593	12430	12244
60°	11985	11744	11557
65°	11078	10857	10761
70°	9700	9778	9738
75°	7804	8631	8682
80°	5547	7318	7394
85°	3377	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	444.6	3.5
10°-20°	1275.8	10.0
20°-30°	1932.0	15.1
30°-40°	2316.2	18.1
40°-50°	2361.7	18.4
50°-60°	2061.6	16.1
60°-70°	1475.9	11.5
70°-80°	760.2	5.9
80°-90°	192.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3652.3	28.5
0°-40°	5968.5	46.6
0°-60°	10391.8	81.1
0°-90°	12820.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12820.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4697	4697	4697	4697	4697	
5°	4715	4668	4684	4671	4667	448
15°	4536	4498	4536	4536	4532	1279
25°	4188	4159	4219	4206	4206	1928
35°	3684	3676	3740	3714	3714	2304
45°	3071	3062	3092	3053	3045	2364
55°	2349	2319	2318	2284	2284	2094
65°	1522	1488	1492	1479	1479	1506
75°	657	686	726	731	731	710
85°	96	147	174	178	174	134
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4697.4	4697.4	4697.4	4697.4	4697.4
2.5°	4725.2	4684.4	4697.4	4686.6	4669.6
5°	4714.8	4668.0	4684.4	4671.2	4667.0
7.5°	4680.9	4634.1	4655.6	4646.9	4642.6
10°	4649.6	4602.8	4627.8	4619.0	4614.8
12.5°	4607.8	4564.4	4593.0	4584.3	4583.4
15°	4536.5	4498.2	4536.5	4536.4	4532.1
17.5°	4446.9	4412.0	4453.0	4455.5	4453.0
20°	4384.2	4346.0	4397.3	4393.0	4397.3
22.5°	4307.7	4276.2	4331.2	4320.0	4324.2
25°	4188.5	4158.7	4219.0	4205.9	4205.9
27.5°	4047.6	4026.3	4092.0	4078.0	4078.0
30°	3953.6	3932.4	4001.5	3984.1	3984.1
32.5°	3849.3	3834.8	3900.6	3879.7	3879.7
35°	3684.0	3675.5	3740.5	3714.4	3714.4
37.5°	3513.5	3505.8	3564.8	3533.3	3523.1
40°	3388.2	3384.0	3436.1	3401.3	3401.3
42.5°	3263.0	3258.7	3303.8	3262.1	3262.1
45°	3070.7	3062.2	3092.5	3053.1	3044.6
47.5°	2861.1	2852.6	2871.5	2828.8	2824.5
50°	2718.4	2709.9	2718.4	2679.2	2674.9
52.5°	2572.3	2557.0	2558.3	2519.2	2518.3
55°	2348.7	2318.9	2318.3	2283.5	2283.5
57.5°	2112.1	2073.0	2076.4	2046.8	2042.5
60°	1948.6	1906.0	1909.4	1883.2	1879.0
62.5°	1788.5	1739.2	1749.3	1719.8	1718.9
65°	1522.3	1488.3	1491.9	1478.8	1478.8
67.5°	1266.6	1235.1	1257.9	1247.4	1246.6
70°	1078.7	1057.4	1087.4	1087.3	1083.0
72.5°	904.7	903.8	941.2	941.3	943.8
75°	656.8	686.5	726.4	730.7	730.7
77.5°	438.4	491.2	535.0	536.7	535.9
80°	313.2	372.7	413.2	421.8	417.5
82.5°	212.3	275.2	308.8	317.4	313.2
85°	95.7	146.7	174.0	178.2	174.0
87.5°	27.8	58.5	69.6	69.4	62.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)