

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: P520163

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

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P520163
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-20)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-F-0U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

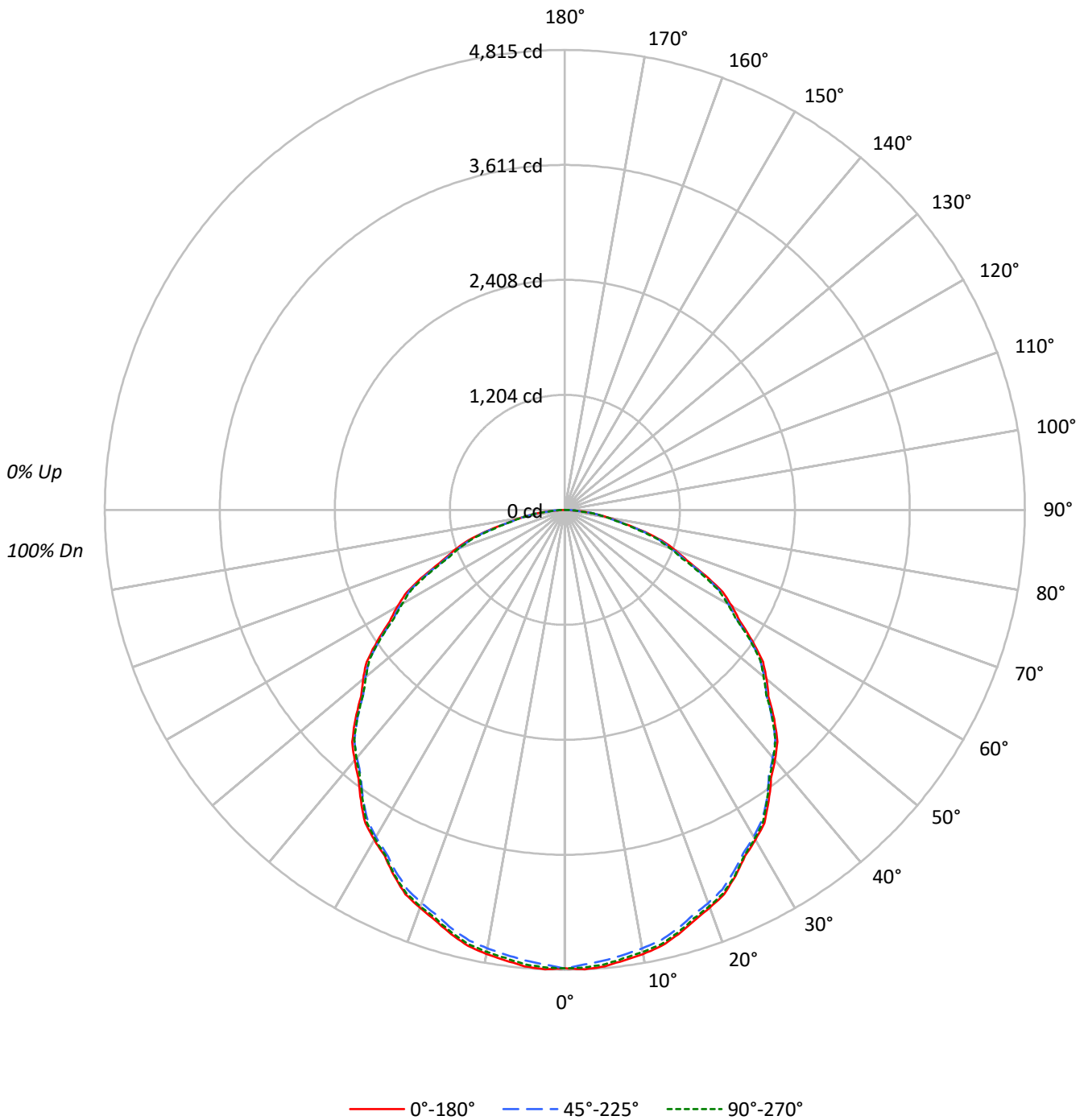
Lumens per Lamp: N/A
Luminaire Lumens: 13096.8 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

Input Watts (W): 136.1
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14763	14763	14763
5°	14811	14624	14746
10°	14743	14562	14677
15°	14644	14468	14586
20°	14509	14345	14457
25°	14344	14192	14308
30°	14167	14045	14119
35°	13966	13846	13856
40°	13735	13587	13629
45°	13478	13329	13352
50°	13184	13032	12994
55°	12848	12664	12636
60°	12431	12155	12090
65°	11785	11535	11382
70°	10975	10690	10547
75°	9764	9543	9261
80°	7954	7720	7674
85°	4753	5406	5406



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.9	3.5
10°-20°	1290.0	9.8
20°-30°	1938.0	14.8
30°-40°	2312.4	17.7
40°-50°	2370.3	18.1
50°-60°	2112.7	16.1
60°-70°	1572.7	12.0
70°-80°	852.1	6.5
80°-90°	195.6	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°	3680.9	28.1
0°-40°	5993.3	45.8
0°-60°	10476.4	80.0
0°-90°	13096.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13096.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4800	4800	4800	4800	4800	
5°	4798	4790	4737	4779	4777	455
15°	4600	4589	4544	4584	4581	1297
25°	4227	4219	4182	4206	4216	1947
35°	3720	3717	3688	3688	3691	2326
45°	3099	3091	3065	3060	3070	2388
55°	2396	2388	2362	2344	2357	2140
65°	1620	1609	1585	1574	1564	1604
75°	822	822	803	787	779	873
85°	135	153	153	156	153	189
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4800.3	4800.3	4800.3	4800.3	4800.3
2.5°	4815.1	4806.9	4764.4	4800.2	4794.0
5°	4797.7	4790.0	4737.0	4779.1	4776.6
7.5°	4757.0	4747.2	4698.9	4738.4	4733.7
10°	4721.1	4713.4	4663.0	4702.5	4700.0
12.5°	4676.7	4669.0	4618.6	4658.2	4657.7
15°	4599.5	4589.2	4544.1	4583.6	4581.1
17.5°	4507.1	4495.3	4450.6	4481.9	4487.0
20°	4433.1	4425.4	4383.0	4412.1	4417.3
22.5°	4357.0	4347.2	4302.6	4336.0	4341.2
25°	4227.1	4219.3	4182.2	4206.2	4216.5
27.5°	4084.4	4084.4	4050.0	4067.1	4073.3
30°	3989.3	3989.3	3954.9	3965.8	3976.0
32.5°	3887.9	3879.5	3847.1	3855.8	3866.2
35°	3719.8	3717.3	3688.1	3688.2	3690.7
37.5°	3546.0	3538.7	3506.9	3509.3	3521.7
40°	3421.2	3416.1	3384.3	3384.5	3394.9
42.5°	3294.4	3289.3	3261.7	3257.5	3261.7
45°	3098.9	3091.2	3064.6	3059.6	3069.9
47.5°	2890.8	2892.9	2861.2	2854.0	2859.6
50°	2755.6	2755.6	2723.8	2708.1	2715.9
52.5°	2613.9	2609.8	2578.0	2560.4	2578.5
55°	2396.3	2388.5	2361.9	2343.7	2356.6
57.5°	2173.3	2161.3	2134.7	2114.7	2122.0
60°	2021.1	2003.0	1976.2	1960.4	1965.6
62.5°	1862.5	1852.7	1823.9	1799.9	1811.3
65°	1619.5	1609.2	1585.1	1574.3	1564.1
67.5°	1381.2	1374.4	1347.4	1336.1	1329.4
70°	1220.6	1207.6	1188.9	1175.6	1173.0
72.5°	1064.2	1049.2	1030.3	1019.1	1012.4
75°	821.7	821.7	803.1	787.1	779.4
77.5°	590.8	592.8	577.5	572.1	568.6
80°	449.1	449.1	435.9	430.6	433.3
82.5°	313.9	320.1	315.4	308.0	304.4
85°	134.7	152.8	153.2	155.8	153.2
87.5°	23.2	37.7	40.1	35.9	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)