

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: P564221

Luminaire Tested: **SQ4-PR1-0U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564221
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-0U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

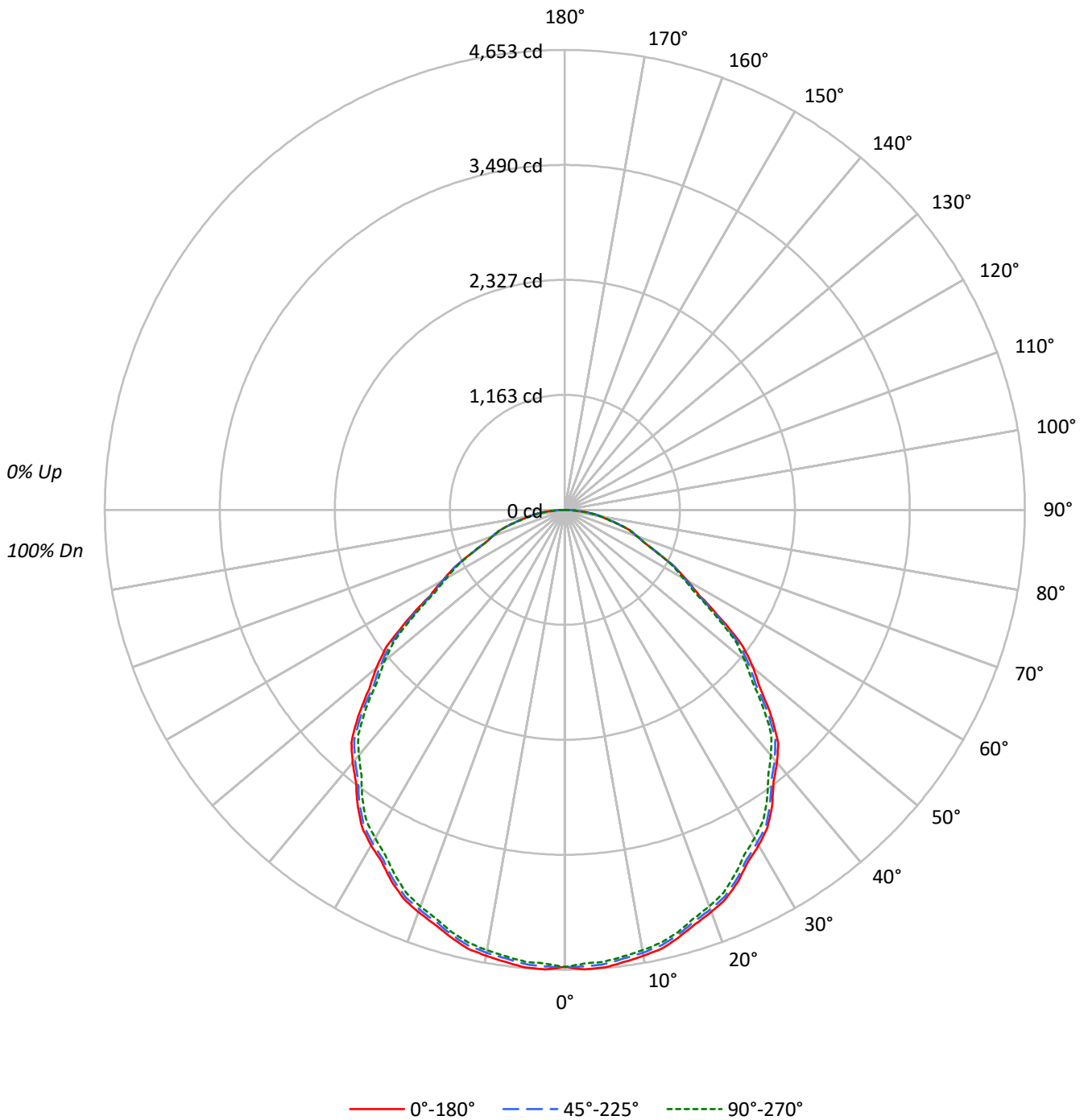
Lumens per Lamp: N/A
Luminaire Lumens: 11561.1 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Direct

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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85			85	
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72			72	
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62			62	
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54			54	
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47			47	
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41			41	
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37			37	
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33			33	
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30			30	
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27			27	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14222	14222	14222
5°	14351	14240	14166
10°	14305	14206	14131
15°	14242	14154	14078
20°	14171	14079	13975
25°	14071	13976	13814
30°	13919	13820	13622
35°	13714	13594	13400
40°	13401	13257	13017
45°	12855	12629	12370
50°	11892	11606	11377
55°	10380	10145	9931
60°	8746	8673	8502
65°	7565	7594	7537
70°	6949	6984	6984
75°	6673	6673	6721
80°	6278	6349	6278
85°	5060	5621	5621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.3	3.8
10°-20°	1251.2	10.8
20°-30°	1887.3	16.3
30°-40°	2248.7	19.5
40°-50°	2217.0	19.2
50°-60°	1694.3	14.7
60°-70°	1048.5	9.1
70°-80°	595.5	5.2
80°-90°	181.2	1.6
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°	3575.8	30.9
0°-40°	5824.5	50.4
0°-60°	9735.9	84.2
0°-90°	11561.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11561.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4625	4625	4625	4625	4625	
5°	4648	4598	4613	4597	4589	441
15°	4473	4426	4445	4429	4422	1262
25°	4147	4096	4119	4075	4071	1908
35°	3653	3610	3621	3573	3569	2280
45°	2956	2917	2904	2852	2844	2264
55°	1936	1905	1892	1860	1852	1735
65°	1040	1032	1044	1036	1036	1053
75°	562	562	562	566	566	593
85°	143	151	159	159	159	172
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4624.6	4624.6	4624.6	4624.6	4624.6
2.5°	4653.3	4612.8	4624.6	4614.6	4592.8
5°	4648.5	4597.9	4612.7	4596.6	4588.8
7.5°	4612.7	4562.8	4577.6	4561.6	4556.9
10°	4580.8	4534.1	4549.0	4532.9	4525.1
12.5°	4545.8	4495.9	4513.9	4494.6	4486.8
15°	4473.3	4426.5	4445.4	4429.3	4421.5
17.5°	4393.6	4343.8	4362.5	4344.0	4333.9
20°	4329.9	4283.1	4302.0	4274.0	4270.1
22.5°	4259.8	4213.0	4231.9	4194.4	4193.6
25°	4146.6	4096.0	4118.8	4074.9	4071.0
27.5°	4012.0	3965.3	3984.1	3939.4	3934.7
30°	3919.6	3872.9	3891.7	3843.7	3835.9
32.5°	3814.4	3770.8	3786.6	3738.6	3734.0
35°	3652.7	3609.9	3620.8	3573.0	3569.1
37.5°	3468.7	3429.7	3436.0	3383.4	3379.5
40°	3338.0	3299.1	3302.2	3246.3	3242.4
42.5°	3194.6	3155.7	3152.4	3096.6	3092.7
45°	2955.6	2916.7	2903.8	2851.9	2844.1
47.5°	2683.2	2644.2	2620.2	2577.9	2572.4
50°	2485.6	2446.6	2425.8	2389.7	2378.0
52.5°	2272.1	2233.1	2215.5	2182.6	2170.9
55°	1935.9	1904.7	1892.1	1860.0	1852.2
57.5°	1616.4	1595.4	1591.7	1560.6	1557.5
60°	1422.0	1410.4	1410.1	1382.2	1382.2
62.5°	1256.3	1247.8	1254.0	1235.6	1232.4
65°	1039.6	1031.9	1043.6	1035.7	1035.7
67.5°	868.4	868.4	875.5	872.3	872.3
70°	772.8	772.8	776.7	776.7	776.7
72.5°	686.7	683.6	693.9	693.8	690.7
75°	561.6	561.6	561.6	565.6	565.6
77.5°	437.4	438.1	441.4	440.5	437.4
80°	354.5	358.4	358.5	354.5	354.5
82.5°	271.7	275.6	275.6	274.8	271.7
85°	143.4	151.2	159.3	159.3	159.3
87.5°	41.4	53.9	63.7	63.7	60.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)