

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: P519859

Luminaire Tested: **SQ4-F-025U-125D-830-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519859
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-025U-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

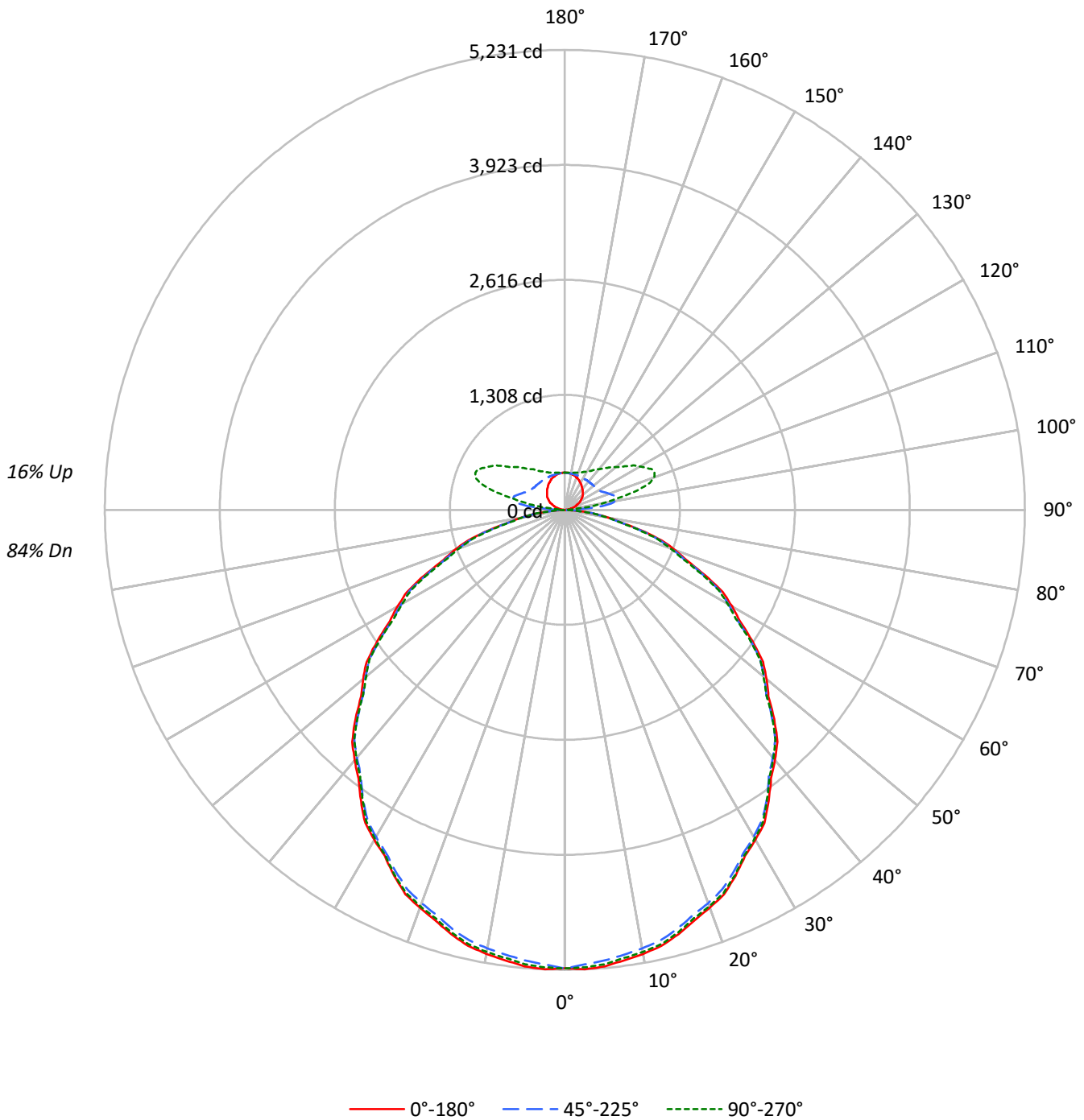
Lumens per Lamp: N/A
Luminaire Lumens: 16964.7 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 154
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84				
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71				
2	96	88	81	76	92	85	79	74	79	74	70	73	69	66	68	65	62	59				
3	87	77	69	63	84	74	67	62	69	63	58	64	60	55	60	56	53	50				
4	80	68	60	53	77	66	58	52	62	55	50	57	52	47	53	49	45	43				
5	74	61	52	46	70	59	51	45	55	48	43	52	46	41	48	43	39	37				
6	68	55	46	40	65	53	45	39	50	43	38	47	41	36	44	39	35	32				
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	40	35	31	28				
8	58	45	37	31	56	44	36	31	41	35	30	39	33	29	37	31	27	25				
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	34	29	25	23				
10	51	38	31	25	49	37	30	25	35	29	24	33	27	23	31	26	23	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16038	16038	16038
5°	16090	15886	16019
10°	16016	15819	15944
15°	15908	15717	15845
20°	15761	15582	15705
25°	15582	15416	15543
30°	15389	15257	15339
35°	15171	15042	15052
40°	14921	14759	14806
45°	14642	14479	14504
50°	14321	14157	14116
55°	13957	13757	13726
60°	13504	13204	13134
65°	12802	12531	12364
70°	11922	11613	11458
75°	10606	10366	10060
80°	8641	8386	8336
85°	5166	5872	5872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.0	2.9
10°-20°	1401.3	8.3
20°-30°	2105.3	12.4
30°-40°	2512.0	14.8
40°-50°	2574.9	15.2
50°-60°	2295.1	13.5
60°-70°	1708.5	10.1
70°-80°	925.6	5.5
80°-90°	214.8	1.3
90°-100°	205.7	1.2
100°-110°	540.7	3.2
110°-120°	560.7	3.3
120°-130°	449.7	2.7
130°-140°	352.9	2.1
140°-150°	270.8	1.6
150°-160°	195.1	1.1
160°-170°	119.3	0.7
170°-180°	40.3	0.2
0°-30°	3998.6	23.6
0°-40°	6510.7	38.4
0°-60°	11380.6	67.1
0°-90°	14229.5	83.9
90°-120°	1307.1	7.7
90°-150°	2380.5	14.0
90°-180°	2735.0	16.1
0°-180°	16964.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5215	5215	5215	5215	5215	
5°	5212	5203	5146	5192	5189	494
15°	4996	4985	4936	4979	4976	1409
25°	4592	4584	4543	4569	4580	2115
35°	4041	4038	4006	4006	4009	2527
45°	3366	3358	3329	3324	3335	2594
55°	2603	2595	2566	2546	2560	2325
65°	1759	1748	1722	1710	1699	1742
75°	893	893	872	855	847	948
85°	146	166	166	169	166	202
90°	3	8	22	11	11	6
95°	27	106	354	183	124	30
105°	97	148	598	908	847	103
115°	173	210	479	955	1090	171
125°	241	270	436	736	868	214
135°	287	316	422	594	674	222
145°	333	354	417	507	546	208
155°	376	386	417	458	471	173
165°	406	411	417	433	438	115
175°	422	422	419	425	425	40
180°	422	422	422	422	422	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5214.8	5214.8	5214.8	5214.8	5214.8
2.5°	5230.8	5221.8	5175.6	5214.5	5207.9
5°	5211.8	5203.4	5145.8	5191.6	5188.9
7.5°	5167.6	5157.0	5104.5	5147.5	5142.4
10°	5128.6	5120.2	5065.5	5108.4	5105.6
12.5°	5080.4	5071.9	5017.2	5060.3	5059.7
15°	4996.5	4985.4	4936.3	4979.3	4976.5
17.5°	4896.1	4883.2	4834.7	4868.7	4874.3
20°	4815.8	4807.3	4761.2	4792.9	4798.6
22.5°	4733.1	4722.5	4674.0	4710.3	4715.9
25°	4591.9	4583.5	4543.1	4569.2	4580.5
27.5°	4437.0	4437.0	4399.7	4418.1	4424.9
30°	4333.6	4333.6	4296.3	4308.1	4319.3
32.5°	4223.4	4214.4	4179.2	4188.7	4199.9
35°	4040.9	4038.1	4006.4	4006.5	4009.3
37.5°	3852.1	3844.2	3809.6	3812.1	3825.6
40°	3716.6	3711.0	3676.4	3676.6	3687.9
42.5°	3578.8	3573.3	3543.3	3538.8	3543.3
45°	3366.5	3358.0	3329.1	3323.6	3334.9
47.5°	3140.3	3142.5	3108.2	3100.2	3106.4
50°	2993.3	2993.3	2959.0	2941.9	2950.4
52.5°	2839.6	2835.0	2800.5	2781.4	2801.1
55°	2603.0	2594.6	2565.7	2546.0	2560.0
57.5°	2360.8	2347.9	2318.9	2297.2	2305.1
60°	2195.5	2175.8	2146.7	2129.6	2135.3
62.5°	2023.3	2012.6	1981.4	1955.3	1967.6
65°	1759.3	1748.0	1722.0	1710.2	1699.1
67.5°	1500.4	1493.1	1463.7	1451.5	1444.2
70°	1325.9	1311.9	1291.5	1277.0	1274.3
72.5°	1156.0	1139.7	1119.3	1107.1	1099.8
75°	892.6	892.6	872.4	855.1	846.6
77.5°	641.8	644.0	627.4	621.6	617.6
80°	487.9	487.9	473.5	467.8	470.7
82.5°	340.9	347.6	342.7	334.6	330.6
85°	146.4	166.0	166.4	169.3	166.4
87.5°	25.8	42.7	48.2	41.3	36.7
90°	2.7	8.0	21.6	10.8	10.8
92.5°	11.4	54.8	121.2	53.6	34.6
95°	27.1	106.4	354.3	182.7	124.5
97.5°	47.0	116.9	530.2	421.6	310.6
100°	62.2	125.7	584.3	592.2	459.9
102.5°	75.2	134.5	599.4	737.5	624.4
105°	97.4	147.7	597.8	907.5	846.7
107.5°	120.2	166.7	563.8	995.8	1010.6
110°	135.3	177.6	535.6	1018.6	1082.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.4	190.6	509.7	1004.1	1101.5
115°	173.1	210.2	478.8	955.3	1090.2
117.5°	195.3	229.1	457.7	887.4	1037.1
120°	208.3	240.0	449.1	841.9	987.3
122.5°	221.3	253.0	442.6	796.4	939.7
125°	240.8	269.8	435.5	736.1	868.3
127.5°	256.5	286.1	429.6	687.5	799.1
130°	265.1	296.8	427.4	657.0	760.1
132.5°	273.8	305.5	425.3	630.8	723.3
135°	286.8	315.8	422.0	594.3	673.6
137.5°	300.2	328.8	421.4	566.8	631.9
140°	311.0	337.5	419.2	545.1	605.9
142.5°	319.7	344.1	419.2	529.7	582.1
145°	332.7	353.9	416.6	506.7	546.5
147.5°	345.7	366.4	416.6	487.7	520.5
150°	354.3	372.9	416.6	476.7	503.2
152.5°	363.0	377.3	416.6	467.9	488.0
155°	376.0	386.5	416.6	457.5	470.7
157.5°	385.8	395.8	416.6	448.2	457.7
160°	392.2	400.1	416.6	443.7	449.1
162.5°	398.7	404.5	416.6	439.4	444.7
165°	405.8	411.0	416.6	432.9	438.3
167.5°	412.3	414.9	419.2	430.1	432.2
170°	416.6	419.2	419.2	430.1	430.1
172.5°	418.8	419.2	419.2	427.9	425.7
175°	422.0	422.0	419.2	424.7	424.7
177.5°	422.0	422.0	419.8	424.1	422.0
180°	422.0	422.0	422.0	422.0	422.0

(END OF REPORT)