

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: P563249

Luminaire Tested: **SQ4-PP3-025U-125D-830-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563249
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PP3-025U-125D-830-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16532.3 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

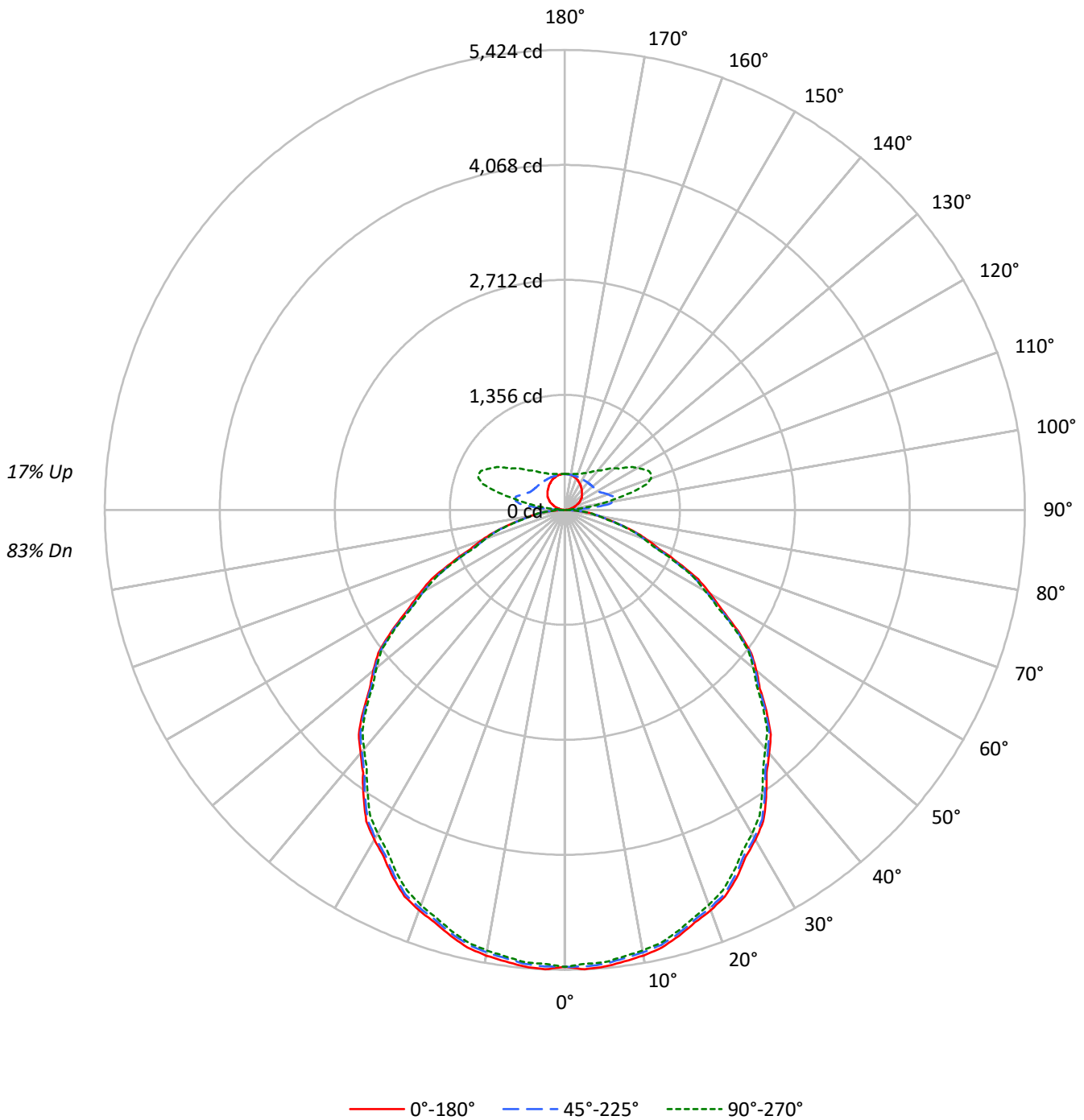
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	83
1	106	101	97	94	101	97	94	91	90	87	85	84	81	79	77	76	74	71
2	96	89	82	77	92	86	80	75	79	75	71	74	70	67	68	66	63	60
3	88	78	71	65	84	76	69	63	70	65	60	65	61	57	61	57	54	51
4	81	70	61	55	77	67	60	54	63	56	51	58	53	49	55	50	47	44
5	74	62	54	48	71	60	52	47	56	50	45	53	47	43	49	45	41	38
6	69	56	48	42	66	54	46	41	51	44	39	48	42	37	45	40	36	34
7	64	51	43	37	61	49	42	36	46	40	35	44	38	33	41	36	32	30
8	59	46	38	33	57	45	37	32	42	36	31	40	34	30	38	33	29	27
9	55	43	35	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24
10	52	39	32	27	50	38	31	26	36	30	25	34	28	24	32	27	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16576	16576	16576
5°	16697	16595	16537
10°	16669	16551	16477
15°	16559	16469	16379
20°	16449	16356	16233
25°	16254	16141	15981
30°	15953	15869	15668
35°	15536	15429	15234
40°	15038	14944	14773
45°	14628	14525	14381
50°	14103	14012	13877
55°	13373	13196	13095
60°	12174	11826	11767
65°	10725	10278	10244
70°	9260	8878	8878
75°	7971	7858	7746
80°	7028	7111	6944
85°	5501	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.7	3.1
10°-20°	1455.2	8.8
20°-30°	2179.8	13.2
30°-40°	2556.7	15.5
40°-50°	2564.7	15.5
50°-60°	2187.9	13.2
60°-70°	1426.9	8.6
70°-80°	715.9	4.3
80°-90°	200.4	1.2
90°-100°	205.7	1.2
100°-110°	540.7	3.3
110°-120°	560.7	3.4
120°-130°	449.7	2.7
130°-140°	352.9	2.1
140°-150°	270.8	1.6
150°-160°	195.1	1.2
160°-170°	119.3	0.7
170°-180°	40.3	0.2
0°-30°	4144.7	25.1
0°-40°	6701.4	40.5
0°-60°	11454.0	69.3
0°-90°	13797.2	83.5
90°-120°	1307.0	7.9
90°-150°	2380.4	14.4
90°-180°	2735.0	16.5
0°-180°	16532.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5390	5390	5390	5390	5390	
5°	5409	5358	5376	5357	5357	514
15°	5201	5150	5172	5153	5144	1467
25°	4790	4734	4757	4714	4710	2203
35°	4138	4096	4110	4062	4058	2585
45°	3363	3340	3340	3307	3307	2590
55°	2494	2485	2461	2447	2442	2217
65°	1474	1446	1412	1403	1408	1471
75°	671	671	661	656	652	728
85°	156	170	170	170	170	183
90°	3	8	22	11	11	8
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	387	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°	5389.8	5389.8	5389.8	5389.8	5389.8
2.5°	5423.8	5379.5	5389.8	5381.7	5359.6
5°	5408.7	5357.9	5375.6	5356.7	5356.7
7.5°	5371.9	5316.4	5334.1	5315.1	5314.2
10°	5337.8	5282.4	5300.1	5281.1	5276.4
12.5°	5288.7	5233.3	5254.7	5232.0	5231.1
15°	5200.9	5150.0	5172.5	5153.4	5144.2
17.5°	5101.7	5046.2	5073.3	5046.8	5043.1
20°	5026.1	4970.7	4997.7	4959.9	4959.9
22.5°	4935.4	4880.0	4910.8	4861.7	4861.7
25°	4789.9	4734.5	4756.8	4714.2	4709.6
27.5°	4617.0	4562.5	4585.8	4537.6	4536.7
30°	4492.3	4441.5	4468.7	4416.6	4412.0
32.5°	4356.2	4309.1	4328.8	4276.8	4272.2
35°	4138.0	4096.4	4109.7	4062.3	4057.7
37.5°	3908.4	3865.9	3881.0	3840.4	3838.5
40°	3745.9	3718.2	3722.3	3689.0	3679.8
42.5°	3594.8	3563.4	3567.4	3534.3	3532.4
45°	3363.3	3340.2	3339.7	3306.6	3306.6
47.5°	3117.7	3100.1	3095.0	3067.6	3066.7
50°	2947.6	2933.8	2928.7	2905.0	2900.4
52.5°	2770.0	2763.5	2747.3	2727.5	2726.6
55°	2494.1	2484.9	2461.1	2446.8	2442.2
57.5°	2194.7	2176.2	2149.3	2128.6	2132.3
60°	1979.3	1960.8	1922.6	1913.1	1913.1
62.5°	1771.4	1749.2	1710.9	1697.9	1705.3
65°	1473.8	1446.1	1412.4	1403.1	1407.7
67.5°	1203.6	1178.7	1142.2	1142.1	1138.4
70°	1029.8	1015.9	987.3	987.3	987.3
72.5°	874.8	868.4	847.4	847.4	843.7
75°	670.8	670.8	661.3	656.5	651.9
77.5°	502.6	504.5	499.8	494.9	486.5
80°	396.8	406.0	401.5	396.7	392.1
82.5°	298.5	307.8	307.0	298.5	297.6
85°	155.9	169.7	170.1	170.1	170.1
87.5°	42.1	57.9	64.8	62.7	66.4
90°	2.7	8.0	21.6	10.8	10.8
92.5°	11.4	54.7	121.2	53.7	34.6
95°	27.1	106.4	354.4	182.6	124.4
97.5°	47.1	116.9	530.2	421.6	310.5
100°	62.2	125.7	584.3	592.1	459.9
102.5°	75.2	134.4	599.4	737.5	624.3
105°	97.4	147.6	597.8	907.5	846.7
107.5°	120.1	166.7	563.7	995.8	1010.6
110°	135.3	177.6	535.6	1018.5	1082.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.4	190.6	509.6	1004.2	1101.5
115°	173.1	210.2	478.8	955.2	1090.1
117.5°	195.3	229.2	457.7	887.4	1037.1
120°	208.3	240.0	449.0	841.9	987.3
122.5°	221.3	253.0	442.5	796.4	939.7
125°	240.8	269.8	435.5	736.1	868.3
127.5°	256.4	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	425.2	630.8	723.3
135°	286.7	315.8	422.0	594.2	673.6
137.5°	300.3	328.8	421.4	566.8	631.9
140°	311.1	337.5	419.3	545.1	605.9
142.5°	319.7	344.1	419.3	529.8	582.1
145°	332.7	353.9	416.6	506.7	546.4
147.5°	345.7	366.3	416.6	487.7	520.5
150°	354.4	372.9	416.6	476.7	503.1
152.5°	363.0	377.3	416.6	467.9	488.0
155°	376.0	386.6	416.6	457.5	470.7
157.5°	385.7	395.8	416.6	448.2	457.7
160°	392.2	400.2	416.6	443.8	449.0
162.5°	398.7	404.5	416.6	439.4	444.7
165°	405.8	411.0	416.6	432.9	438.2
167.5°	412.3	414.9	419.3	430.2	432.3
170°	416.6	419.2	419.3	430.1	430.1
172.5°	418.7	419.3	419.3	427.9	425.8
175°	422.0	422.0	419.3	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)