

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: P563837

Luminaire Tested: **SQ4-PP3-150U-125D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563837
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PP3-150U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

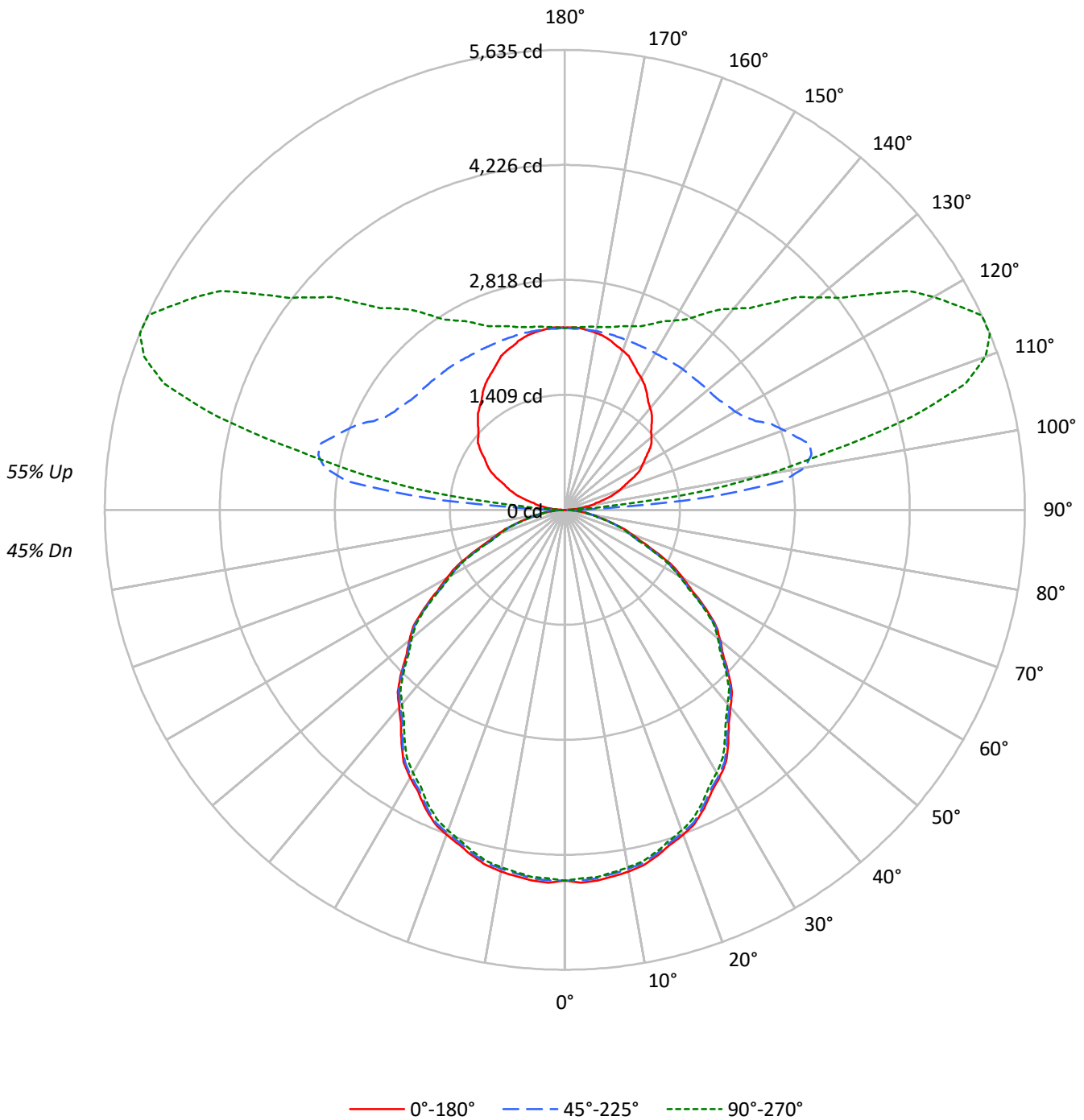
Lumens per Lamp: N/A
Luminaire Lumens: 26015.3 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 256.3
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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	97	93	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	29	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	20
6	62	50	42	37	57	47	40	34	39	34	30	33	28	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	25	22	24	21	19	16
8	53	41	34	28	49	38	31	27	32	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	20	17	15	13
10	46	34	27	23	43	32	26	21	27	22	19	23	19	16	19	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13974	13974	13974
5°	14077	13991	13942
10°	14053	13953	13891
15°	13960	13884	13808
20°	13868	13790	13685
25°	13703	13608	13473
30°	13449	13378	13209
35°	13097	13008	12843
40°	12678	12598	12455
45°	12332	12246	12124
50°	11889	11813	11699
55°	11274	11125	11039
60°	10263	9969	9921
65°	9042	8665	8636
70°	7807	7484	7484
75°	6720	6624	6531
80°	5924	5995	5853
85°	4637	5060	5060



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.7	1.7
10°-20°	1226.9	4.7
20°-30°	1837.7	7.1
30°-40°	2155.5	8.3
40°-50°	2162.2	8.3
50°-60°	1844.5	7.1
60°-70°	1202.9	4.6
70°-80°	603.5	2.3
80°-90°	171.7	0.7
90°-100°	1036.6	4.0
100°-110°	2802.7	10.8
110°-120°	2946.7	11.3
120°-130°	2393.5	9.2
130°-140°	1877.5	7.2
140°-150°	1441.0	5.5
150°-160°	1036.3	4.0
160°-170°	633.1	2.4
170°-180°	213.4	0.8
0°-30°	3494.2	13.4
0°-40°	5649.7	21.7
0°-60°	9656.4	37.1
0°-90°	11634.6	44.7
90°-120°	6786.0	26.1
90°-150°	12497.9	48.0
90°-180°	14381.0	55.3
0°-180°	26015.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4544	4544	4544	4544	4544	
5°	4560	4517	4532	4516	4516	433
15°	4385	4342	4361	4345	4337	1237
25°	4038	3991	4010	3974	3970	1857
35°	3489	3454	3465	3425	3421	2179
45°	2836	2816	2816	2788	2788	2183
55°	2103	2095	2075	2063	2059	1869
65°	1242	1219	1191	1183	1187	1240
75°	566	566	558	554	550	613
85°	131	143	143	143	143	155
90°	5	14	31	34	31	16
95°	161	565	1724	892	531	168
105°	521	805	3109	4586	4398	549
115°	917	1121	2579	4992	5635	906
125°	1256	1439	2324	3922	4607	1119
135°	1505	1684	2262	3167	3585	1163
145°	1750	1882	2230	2711	2917	1095
155°	1976	2054	2211	2432	2511	911
165°	2151	2172	2221	2308	2319	606
175°	2233	2230	2223	2252	2247	212
180°	2230	2230	2230	2230	2230	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4543.9	4543.9	4543.9	4543.9	4543.9
2.5°	4572.6	4535.2	4543.9	4537.1	4518.4
5°	4559.8	4517.0	4532.0	4516.0	4516.0
7.5°	4528.8	4482.1	4496.9	4481.0	4480.2
10°	4500.1	4453.4	4468.2	4452.2	4448.3
12.5°	4458.7	4412.0	4430.0	4410.9	4410.1
15°	4384.6	4341.8	4360.7	4344.6	4336.8
17.5°	4301.0	4254.3	4277.1	4254.7	4251.6
20°	4237.3	4190.5	4213.4	4181.5	4181.5
22.5°	4160.8	4114.1	4140.1	4098.7	4098.7
25°	4038.1	3991.4	4010.3	3974.3	3970.4
27.5°	3892.4	3846.4	3866.1	3825.5	3824.7
30°	3787.3	3744.4	3767.3	3723.5	3719.6
32.5°	3672.6	3632.8	3649.5	3605.6	3601.7
35°	3488.6	3453.5	3464.7	3424.8	3420.9
37.5°	3295.0	3259.2	3271.9	3237.7	3236.1
40°	3158.0	3134.7	3138.1	3110.1	3102.3
42.5°	3030.6	3004.1	3007.5	2979.6	2978.0
45°	2835.5	2816.0	2815.6	2787.7	2787.7
47.5°	2628.4	2613.6	2609.3	2586.1	2585.4
50°	2485.0	2473.3	2469.1	2449.1	2445.2
52.5°	2335.3	2329.8	2316.2	2299.4	2298.6
55°	2102.7	2094.9	2074.8	2062.8	2058.9
57.5°	1850.2	1834.6	1812.0	1794.5	1797.7
60°	1668.6	1653.0	1620.8	1612.9	1612.9
62.5°	1493.4	1474.7	1442.4	1431.4	1437.6
65°	1242.5	1219.1	1190.7	1182.9	1186.8
67.5°	1014.7	993.7	962.9	962.9	959.8
70°	868.2	856.5	832.3	832.3	832.3
72.5°	737.5	732.1	714.4	714.4	711.3
75°	565.5	565.5	557.5	553.5	549.6
77.5°	423.7	425.3	421.3	417.2	410.2
80°	334.5	342.3	338.5	334.4	330.5
82.5°	251.7	259.5	258.9	251.7	250.9
85°	131.4	143.1	143.4	143.4	143.4
87.5°	36.0	50.3	57.2	57.8	60.4
90°	4.8	14.2	31.2	33.6	31.2
92.5°	68.2	248.5	490.3	212.8	154.1
95°	160.9	564.7	1723.9	892.1	530.6
97.5°	258.3	647.6	2687.1	2223.8	1633.1
100°	331.3	681.1	2986.8	3114.9	2518.6
102.5°	398.6	727.7	3092.4	3790.6	3344.5
105°	521.0	805.1	3109.2	4586.4	4398.5
107.5°	634.3	893.5	2973.3	5082.8	5145.2
110°	722.7	957.4	2852.3	5216.1	5481.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	801.4	1021.2	2740.9	5189.5	5635.0
115°	917.2	1121.4	2578.6	4991.8	5635.0
117.5°	1030.5	1222.1	2471.5	4689.8	5419.0
120°	1099.6	1287.4	2408.2	4473.1	5217.3
122.5°	1164.9	1349.0	2369.7	4240.8	4990.6
125°	1255.7	1438.8	2324.1	3921.9	4607.4
127.5°	1339.3	1519.1	2297.2	3661.7	4264.6
130°	1385.4	1570.8	2285.7	3501.0	4045.6
132.5°	1433.4	1617.0	2274.2	3355.9	3857.4
135°	1505.4	1683.8	2261.7	3166.8	3584.6
137.5°	1577.9	1746.5	2251.1	3013.2	3353.7
140°	1627.8	1785.1	2247.3	2914.4	3217.3
142.5°	1675.9	1823.8	2239.6	2825.2	3090.5
145°	1750.3	1881.8	2230.5	2710.6	2917.2
147.5°	1818.0	1934.4	2219.9	2606.7	2765.4
150°	1867.9	1971.2	2216.1	2550.3	2677.1
152.5°	1914.0	2004.2	2214.2	2497.9	2602.2
155°	1976.0	2053.5	2211.3	2431.6	2511.4
157.5°	2040.3	2094.3	2211.8	2385.3	2437.9
160°	2076.8	2121.4	2213.7	2356.2	2393.8
162.5°	2105.6	2142.7	2215.6	2332.9	2361.1
165°	2151.3	2172.4	2220.9	2307.6	2319.3
167.5°	2182.5	2197.0	2221.4	2285.8	2291.5
170°	2201.7	2208.7	2223.3	2276.1	2276.1
172.5°	2217.0	2218.4	2223.3	2264.5	2262.7
175°	2232.9	2230.5	2223.3	2252.0	2247.3
177.5°	2238.2	2232.5	2222.8	2241.9	2236.2
180°	2230.5	2230.5	2230.5	2230.5	2230.5

(END OF REPORT)