

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: P564513

Luminaire Tested: **SQ4-PR1-150U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564513
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-125D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28331.3 lumens
Efficiency: N/A
Efficacy: 110.5 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: General Diffuse

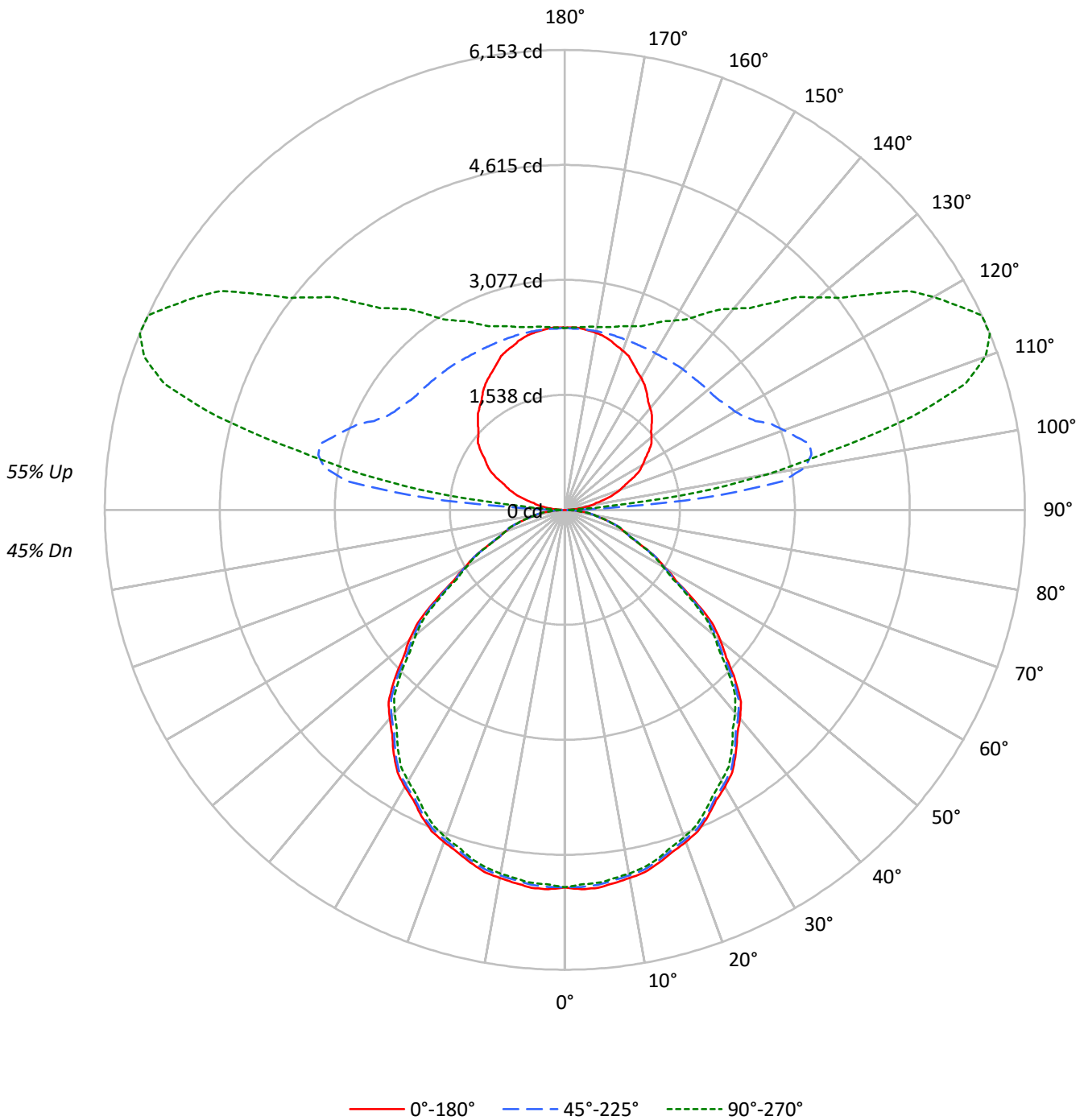
Input Watts (W): 256.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	75	69	65	62	59	55	51	48	46	40	39	37	32				
3	81	72	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28				
4	74	63	56	50	68	58	52	47	49	44	40	40	37	34	32	30	28	24				
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	29	26	24	21				
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	21	18				
7	58	46	38	33	53	42	35	31	36	31	27	30	26	23	24	21	19	16				
8	54	42	34	29	49	39	32	27	33	27	24	27	23	20	22	19	17	15				
9	50	38	31	26	46	35	29	24	30	25	21	25	21	18	21	18	15	13				
10	47	35	28	23	43	32	26	22	28	23	19	23	19	17	19	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15530	15530	15530
5°	15670	15549	15468
10°	15620	15511	15430
15°	15551	15455	15371
20°	15473	15374	15260
25°	15364	15261	15084
30°	15198	15090	14874
35°	14974	14843	14631
40°	14633	14476	14213
45°	14036	13790	13507
50°	12985	12673	12423
55°	11334	11077	10844
60°	9550	9470	9283
65°	8261	8293	8230
70°	7587	7626	7626
75°	7287	7287	7339
80°	6856	6932	6856
85°	5526	6140	6140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.5	1.7
10°-20°	1366.2	4.8
20°-30°	2060.7	7.3
30°-40°	2455.4	8.7
40°-50°	2420.8	8.5
50°-60°	1850.1	6.5
60°-70°	1144.9	4.0
70°-80°	650.3	2.3
80°-90°	202.9	0.7
90°-100°	1131.9	4.0
100°-110°	3060.3	10.8
110°-120°	3217.5	11.4
120°-130°	2613.5	9.2
130°-140°	2050.0	7.2
140°-150°	1573.4	5.6
150°-160°	1131.6	4.0
160°-170°	691.3	2.4
170°-180°	233.1	0.8
0°-30°	3904.5	13.8
0°-40°	6359.9	22.4
0°-60°	10630.7	37.5
0°-90°	12628.8	44.6
90°-120°	7409.7	26.2
90°-150°	13646.6	48.2
90°-180°	15703.0	55.4
0°-180°	28331.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5050	5050	5050	5050	5050	
5°	5076	5020	5037	5019	5011	482
15°	4884	4833	4854	4836	4828	1378
25°	4528	4472	4497	4449	4445	2084
35°	3988	3942	3954	3901	3897	2489
45°	3227	3185	3171	3114	3106	2472
55°	2114	2080	2066	2031	2022	1894
65°	1135	1127	1140	1131	1131	1150
75°	613	613	613	618	618	648
85°	157	165	174	174	174	182
90°	5	16	34	37	34	18
95°	176	616	1882	974	579	184
105°	569	879	3395	5008	4803	599
115°	1002	1224	2816	5451	6153	989
125°	1371	1571	2538	4282	5031	1222
135°	1644	1839	2470	3458	3914	1270
145°	1911	2055	2436	2960	3185	1196
155°	2158	2242	2414	2655	2742	995
165°	2349	2372	2425	2520	2532	662
175°	2438	2436	2428	2459	2454	231
180°	2436	2436	2436	2436	2436	



TEST NUMBER: P564513

CATALOG NUMBER: SQ4-PR1-150U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5049.7	5049.7	5049.7	5049.7	5049.7
2.5°	5081.0	5036.8	5049.7	5038.7	5014.9
5°	5075.8	5020.5	5036.6	5019.1	5010.6
7.5°	5036.6	4982.2	4998.4	4980.9	4975.8
10°	5001.9	4950.8	4967.1	4949.5	4941.0
12.5°	4963.6	4909.1	4928.8	4907.7	4899.2
15°	4884.4	4833.4	4854.0	4836.4	4827.9
17.5°	4797.4	4743.0	4763.5	4743.2	4732.2
20°	4727.8	4676.8	4697.4	4666.8	4662.6
22.5°	4651.3	4600.3	4620.8	4579.9	4579.1
25°	4527.8	4472.5	4497.3	4449.4	4445.1
27.5°	4380.8	4329.7	4350.3	4301.5	4296.4
30°	4279.8	4228.8	4249.4	4197.0	4188.5
32.5°	4165.0	4117.4	4134.6	4082.3	4077.2
35°	3988.4	3941.7	3953.6	3901.3	3897.1
37.5°	3787.5	3745.0	3751.8	3694.3	3690.1
40°	3644.8	3602.3	3605.7	3544.7	3540.4
42.5°	3488.2	3445.7	3442.1	3381.2	3376.9
45°	3227.3	3184.8	3170.7	3114.0	3105.5
47.5°	2929.8	2887.3	2861.1	2814.8	2808.9
50°	2714.0	2671.5	2648.8	2609.4	2596.6
52.5°	2480.9	2438.4	2419.2	2383.2	2370.4
55°	2113.8	2079.8	2066.0	2031.0	2022.5
57.5°	1765.0	1742.0	1738.0	1704.0	1700.6
60°	1552.7	1540.0	1539.7	1509.3	1509.3
62.5°	1371.8	1362.5	1369.2	1349.1	1345.7
65°	1135.2	1126.7	1139.6	1130.9	1130.9
67.5°	948.2	948.2	956.0	952.5	952.5
70°	843.8	843.8	848.1	848.1	848.1
72.5°	749.8	746.4	757.7	757.6	754.2
75°	613.3	613.3	613.3	617.6	617.6
77.5°	477.6	478.4	481.9	481.0	477.6
80°	387.1	391.4	391.4	387.1	387.1
82.5°	296.6	300.9	301.0	300.0	296.6
85°	156.6	165.1	174.0	174.0	174.0
87.5°	46.3	61.9	76.4	76.8	72.9
90°	5.2	15.5	34.1	36.6	34.1
92.5°	74.5	271.3	535.3	232.4	168.3
95°	175.6	616.5	1882.3	974.1	579.4
97.5°	282.1	707.1	2934.1	2428.2	1783.2
100°	361.8	743.7	3261.3	3401.2	2750.1
102.5°	435.2	794.6	3376.7	4139.0	3651.9
105°	568.9	879.1	3395.0	5007.9	4802.8
107.5°	692.6	975.6	3246.6	5550.0	5618.1
110°	789.1	1045.4	3114.5	5695.5	5985.2



TEST NUMBER: P564513

CATALOG NUMBER: SQ4-PR1-150U-125D-935-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	875.1	1115.0	2992.8	5666.4	6153.0
115°	1001.5	1224.5	2815.6	5450.6	6153.0
117.5°	1125.2	1334.4	2698.7	5120.8	5917.0
120°	1200.7	1405.8	2629.5	4884.2	5696.8
122.5°	1272.0	1473.0	2587.5	4630.6	5449.3
125°	1371.1	1571.1	2537.7	4282.4	5030.9
127.5°	1462.3	1658.7	2508.4	3998.3	4656.5
130°	1512.7	1715.2	2495.8	3822.7	4417.4
132.5°	1565.1	1765.6	2483.2	3664.4	4211.9
135°	1643.8	1838.6	2469.6	3457.8	3914.1
137.5°	1722.9	1907.0	2458.0	3290.2	3661.9
140°	1777.5	1949.2	2453.8	3182.3	3513.0
142.5°	1829.9	1991.4	2445.5	3084.9	3374.6
145°	1911.2	2054.7	2435.5	2959.7	3185.3
147.5°	1985.1	2112.2	2424.0	2846.3	3019.6
150°	2039.6	2152.4	2419.8	2784.7	2923.1
152.5°	2090.0	2188.4	2417.7	2727.5	2841.3
155°	2157.6	2242.2	2414.5	2655.1	2742.2
157.5°	2227.9	2286.8	2415.0	2604.6	2662.0
160°	2267.7	2316.4	2417.1	2572.7	2613.8
162.5°	2299.2	2339.7	2419.2	2547.3	2578.1
165°	2349.0	2372.0	2425.0	2519.7	2532.5
167.5°	2383.1	2399.0	2425.5	2495.9	2502.1
170°	2404.0	2411.7	2427.6	2485.3	2485.3
172.5°	2420.8	2422.3	2427.6	2472.7	2470.6
175°	2438.1	2435.5	2427.6	2459.0	2453.8
177.5°	2443.9	2437.7	2427.1	2447.9	2441.8
180°	2435.5	2435.5	2435.5	2435.5	2435.5

(END OF REPORT)