

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: P563765

Luminaire Tested: **SQ4-PP3-150U-050D-930-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563765
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-050D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

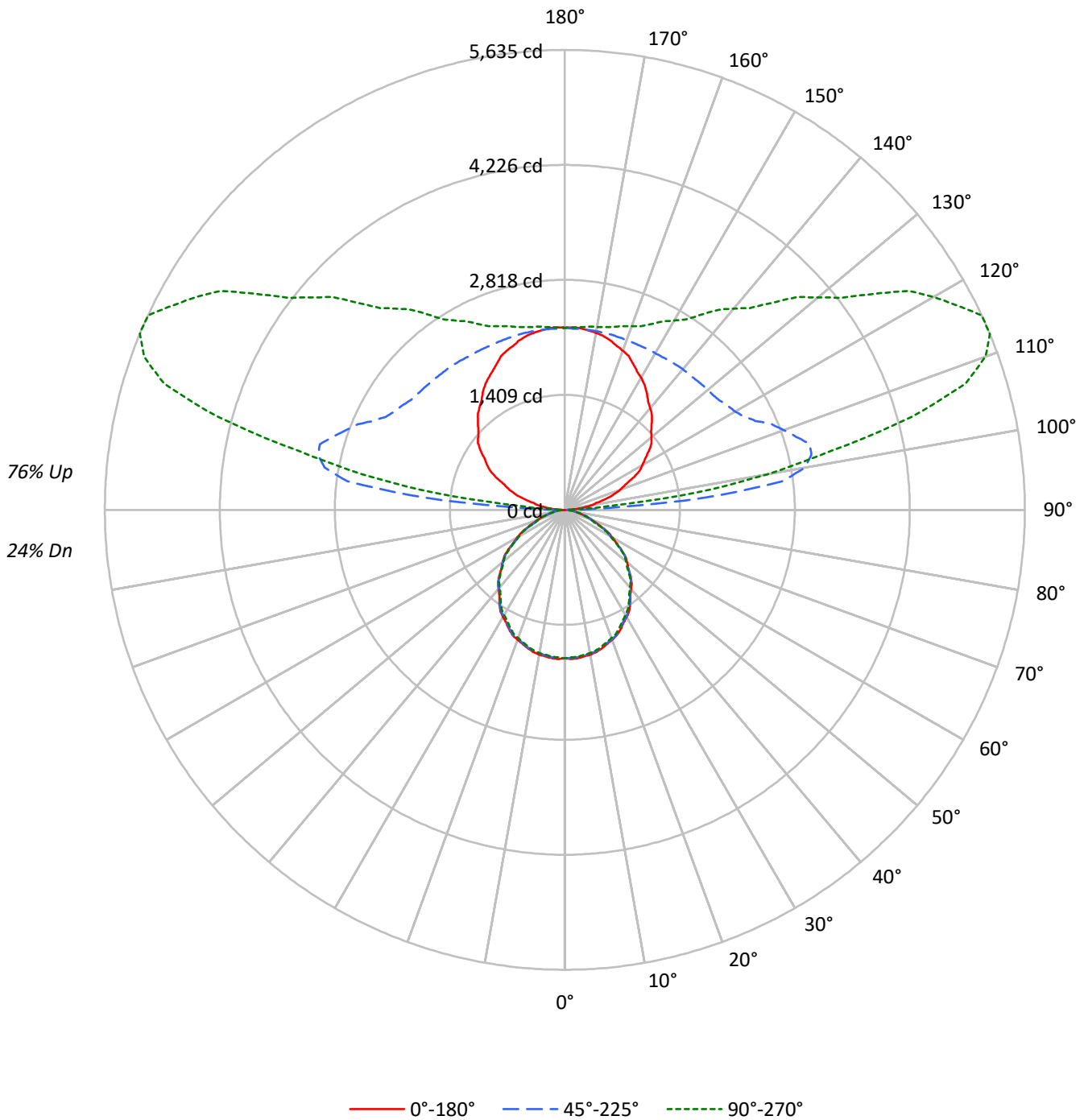
Lumens per Lamp: N/A
Luminaire Lumens: 19039.0 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 168.9
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	24				24
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21				21
2	84	77	71	66	74	69	64	60	53	50	47	39	37	35	26	24	23	18				18
3	77	68	61	55	68	60	55	50	47	43	40	34	32	30	23	21	20	15				15
4	70	60	52	46	62	53	47	42	42	37	34	31	28	25	20	19	17	13				13
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15	11				11
6	59	47	40	34	52	43	36	31	33	29	25	25	21	19	17	15	13	10				10
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12	9				9
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	10	8				8
9	47	35	28	23	42	32	25	21	25	20	17	19	15	13	13	11	9	7				7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6				6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5592	5592	5592
5°	5633	5598	5578
10°	5623	5583	5559
15°	5586	5556	5525
20°	5549	5518	5476
25°	5483	5445	5391
30°	5381	5353	5285
35°	5241	5205	5139
40°	5073	5041	4984
45°	4935	4900	4852
50°	4758	4727	4681
55°	4511	4451	4417
60°	4107	3989	3970
65°	3618	3467	3456
70°	3124	2994	2994
75°	2689	2651	2613
80°	2371	2398	2343
85°	1856	2025	2025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	0.9
10°-20°	490.9	2.6
20°-30°	735.3	3.9
30°-40°	862.5	4.5
40°-50°	865.2	4.5
50°-60°	738.1	3.9
60°-70°	481.4	2.5
70°-80°	241.5	1.3
80°-90°	71.5	0.4
90°-100°	1036.6	5.4
100°-110°	2802.7	14.7
110°-120°	2946.7	15.5
120°-130°	2393.5	12.6
130°-140°	1877.5	9.9
140°-150°	1441.0	7.6
150°-160°	1036.3	5.4
160°-170°	633.1	3.3
170°-180°	213.4	1.1
0°-30°	1398.2	7.3
0°-40°	2260.6	11.9
0°-60°	3863.9	20.3
0°-90°	4658.3	24.5
90°-120°	6786.0	35.6
90°-150°	12497.9	65.6
90°-180°	14381.0	75.5
0°-180°	19039.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1825	1807	1813	1807	1807	173
15°	1754	1737	1745	1738	1735	495
25°	1616	1597	1605	1590	1589	743
35°	1396	1382	1386	1370	1369	872
45°	1135	1127	1127	1116	1116	874
55°	841	838	830	825	824	748
65°	497	488	476	473	475	496
75°	226	226	223	222	220	246
85°	53	57	57	57	57	62
90°	5	14	31	34	31	13
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°	1818.2	1818.2	1818.2	1818.2	1818.2
2.5°	1829.7	1814.7	1818.2	1815.5	1808.0
5°	1824.6	1807.4	1813.4	1807.0	1807.0
7.5°	1812.1	1793.5	1799.4	1793.0	1792.7
10°	1800.7	1782.0	1787.9	1781.5	1780.0
12.5°	1784.1	1765.4	1772.6	1765.0	1764.7
15°	1754.5	1737.3	1744.9	1738.5	1735.3
17.5°	1721.0	1702.3	1711.4	1702.5	1701.2
20°	1695.5	1676.8	1685.9	1673.2	1673.2
22.5°	1664.9	1646.2	1656.6	1640.0	1640.0
25°	1615.8	1597.1	1604.7	1590.3	1588.7
27.5°	1557.5	1539.1	1547.0	1530.7	1530.4
30°	1515.4	1498.3	1507.5	1489.9	1488.3
32.5°	1469.5	1453.6	1460.3	1442.7	1441.2
35°	1395.9	1381.9	1386.4	1370.4	1368.8
37.5°	1318.5	1304.1	1309.2	1295.5	1294.9
40°	1263.7	1254.3	1255.7	1244.5	1241.4
42.5°	1212.7	1202.1	1203.4	1192.3	1191.6
45°	1134.6	1126.8	1126.6	1115.5	1115.5
47.5°	1051.7	1045.8	1044.1	1034.8	1034.5
50°	994.4	989.7	988.0	980.0	978.4
52.5°	934.4	932.3	926.8	920.1	919.8
55°	841.4	838.3	830.2	825.4	823.8
57.5°	740.3	734.1	725.1	718.1	719.3
60°	667.7	661.5	648.6	645.4	645.4
62.5°	597.6	590.1	577.2	572.8	575.3
65°	497.2	487.8	476.5	473.3	474.9
67.5°	406.0	397.6	385.3	385.3	384.0
70°	347.4	342.7	333.0	333.0	333.0
72.5°	295.1	292.9	285.9	285.8	284.6
75°	226.3	226.3	223.1	221.5	219.9
77.5°	169.6	170.2	168.6	166.9	164.1
80°	133.9	137.0	135.4	133.8	132.3
82.5°	100.7	103.8	103.6	100.7	100.4
85°	52.6	57.3	57.4	57.4	57.4
87.5°	15.0	21.8	26.6	27.1	27.9
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)