

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: P563848

Luminaire Tested: **SQ4-PP3-150U-125D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563848
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-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

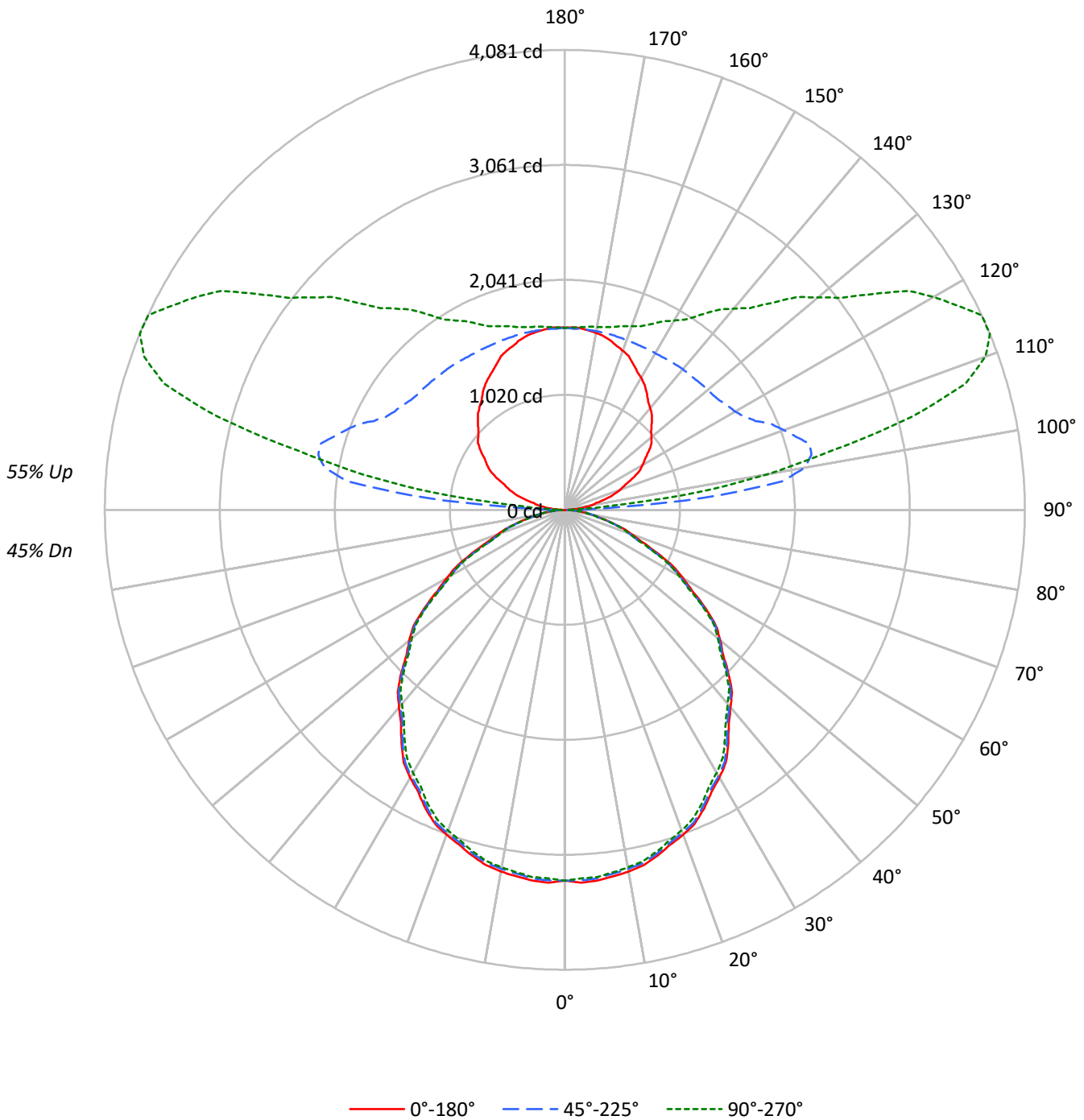
Lumens per Lamp: N/A
Luminaire Lumens: 18841.5 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 167.8
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°	15181	15181	15181
5°	15292	15199	15146
10°	15267	15159	15091
15°	15166	15083	15000
20°	15065	14980	14867
25°	14886	14783	14637
30°	14611	14534	14350
35°	14229	14131	13952
40°	13773	13687	13530
45°	13398	13303	13172
50°	12917	12833	12709
55°	12248	12086	11992
60°	11150	10831	10777
65°	9823	9414	9382
70°	8481	8130	8130
75°	7301	7197	7094
80°	6437	6514	6360
85°	5039	5494	5494



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.2	1.7
10°-20°	888.5	4.7
20°-30°	1330.9	7.1
30°-40°	1561.1	8.3
40°-50°	1566.0	8.3
50°-60°	1335.9	7.1
60°-70°	871.2	4.6
70°-80°	437.1	2.3
80°-90°	124.3	0.7
90°-100°	750.7	4.0
100°-110°	2029.9	10.8
110°-120°	2134.1	11.3
120°-130°	1733.5	9.2
130°-140°	1359.8	7.2
140°-150°	1043.6	5.5
150°-160°	750.6	4.0
160°-170°	458.5	2.4
170°-180°	154.6	0.8
0°-30°	2530.6	13.4
0°-40°	4091.7	21.7
0°-60°	6993.6	37.1
0°-90°	8426.3	44.7
90°-120°	4914.7	26.1
90°-150°	9051.5	48.0
90°-180°	10415.0	55.3
0°-180°	18841.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3291	3291	3291	3291	3291	
5°	3302	3271	3282	3271	3271	314
15°	3176	3144	3158	3147	3141	896
25°	2925	2891	2904	2878	2876	1345
35°	2527	2501	2509	2480	2478	1578
45°	2054	2040	2039	2019	2019	1581
55°	1523	1517	1503	1494	1491	1353
65°	900	883	862	857	860	898
75°	410	410	404	401	398	444
85°	95	104	104	104	104	112
90°	4	10	23	24	23	11
95°	116	409	1248	646	384	122
105°	377	583	2252	3322	3186	397
115°	664	812	1868	3615	4081	656
125°	909	1042	1683	2840	3337	811
135°	1090	1220	1638	2294	2596	843
145°	1268	1363	1615	1963	2113	793
155°	1431	1487	1602	1761	1819	660
165°	1558	1573	1608	1671	1680	439
175°	1617	1616	1610	1631	1628	154
180°	1615	1615	1615	1615	1615	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3290.9	3290.9	3290.9	3290.9	3290.9
2.5°	3311.7	3284.6	3290.9	3286.0	3272.4
5°	3302.4	3271.4	3282.2	3270.7	3270.7
7.5°	3279.9	3246.1	3256.9	3245.3	3244.8
10°	3259.2	3225.3	3236.1	3224.5	3221.7
12.5°	3229.2	3195.3	3208.4	3194.6	3194.0
15°	3175.5	3144.5	3158.2	3146.6	3140.9
17.5°	3115.0	3081.1	3097.7	3081.5	3079.2
20°	3068.8	3035.0	3051.5	3028.4	3028.4
22.5°	3013.4	2979.6	2998.4	2968.4	2968.4
25°	2924.6	2890.8	2904.4	2878.4	2875.6
27.5°	2819.0	2785.8	2800.0	2770.6	2770.0
30°	2742.9	2711.9	2728.5	2696.7	2693.9
32.5°	2659.8	2631.1	2643.1	2611.3	2608.5
35°	2526.6	2501.2	2509.3	2480.4	2477.5
37.5°	2386.4	2360.5	2369.7	2344.8	2343.7
40°	2287.2	2270.3	2272.8	2252.5	2246.8
42.5°	2194.9	2175.7	2178.2	2158.0	2156.8
45°	2053.6	2039.5	2039.1	2019.0	2019.0
47.5°	1903.6	1892.9	1889.7	1873.0	1872.4
50°	1799.8	1791.3	1788.2	1773.7	1770.9
52.5°	1691.3	1687.4	1677.5	1665.3	1664.8
55°	1522.9	1517.2	1502.7	1494.0	1491.1
57.5°	1340.0	1328.7	1312.3	1299.7	1301.9
60°	1208.5	1197.2	1173.9	1168.1	1168.1
62.5°	1081.6	1068.0	1044.7	1036.7	1041.2
65°	899.9	883.0	862.4	856.7	859.5
67.5°	734.9	719.7	697.4	697.4	695.1
70°	628.8	620.3	602.8	602.8	602.8
72.5°	534.2	530.2	517.4	517.4	515.1
75°	409.6	409.6	403.8	400.8	398.0
77.5°	306.9	308.0	305.2	302.2	297.1
80°	242.3	247.9	245.2	242.2	239.4
82.5°	182.3	187.9	187.5	182.3	181.7
85°	95.2	103.6	103.8	103.8	103.8
87.5°	26.1	36.5	41.4	41.8	43.7
90°	3.5	10.3	22.6	24.3	22.6
92.5°	49.4	180.0	355.1	154.1	111.6
95°	116.5	408.9	1248.5	646.1	384.3
97.5°	187.1	469.0	1946.1	1610.6	1182.8
100°	240.0	493.3	2163.2	2255.9	1824.1
102.5°	288.7	527.0	2239.7	2745.3	2422.3
105°	377.3	583.1	2251.8	3321.6	3185.6
107.5°	459.4	647.1	2153.4	3681.2	3726.4
110°	523.4	693.4	2065.8	3777.7	3969.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	580.4	739.6	1985.1	3758.4	4081.1
115°	664.3	812.2	1867.6	3615.3	4081.1
117.5°	746.3	885.1	1790.0	3396.5	3924.6
120°	796.4	932.4	1744.1	3239.6	3778.6
122.5°	843.7	977.0	1716.3	3071.4	3614.4
125°	909.4	1042.1	1683.2	2840.4	3336.9
127.5°	969.9	1100.2	1663.8	2652.0	3088.6
130°	1003.3	1137.6	1655.4	2535.6	2930.0
132.5°	1038.1	1171.1	1647.1	2430.5	2793.7
135°	1090.3	1219.5	1638.0	2293.5	2596.1
137.5°	1142.8	1264.9	1630.4	2182.3	2428.9
140°	1179.0	1292.9	1627.6	2110.8	2330.1
142.5°	1213.7	1320.8	1622.0	2046.2	2238.3
145°	1267.6	1362.9	1615.4	1963.1	2112.7
147.5°	1316.7	1401.0	1607.8	1887.9	2002.8
150°	1352.8	1427.7	1605.0	1847.0	1938.8
152.5°	1386.2	1451.5	1603.6	1809.1	1884.6
155°	1431.1	1487.2	1601.5	1761.1	1818.9
157.5°	1477.7	1516.8	1601.9	1727.6	1765.7
160°	1504.1	1536.4	1603.2	1706.5	1733.7
162.5°	1525.0	1551.9	1604.6	1689.6	1710.0
165°	1558.0	1573.3	1608.5	1671.3	1679.8
167.5°	1580.6	1591.2	1608.8	1655.5	1659.6
170°	1594.5	1599.6	1610.2	1648.5	1648.5
172.5°	1605.7	1606.7	1610.2	1640.1	1638.7
175°	1617.2	1615.5	1610.2	1631.0	1627.6
177.5°	1621.0	1616.9	1609.9	1623.7	1619.6
180°	1615.4	1615.4	1615.4	1615.4	1615.4

(END OF REPORT)