

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P522324

Luminaire Tested: **SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522324
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-52,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-025U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

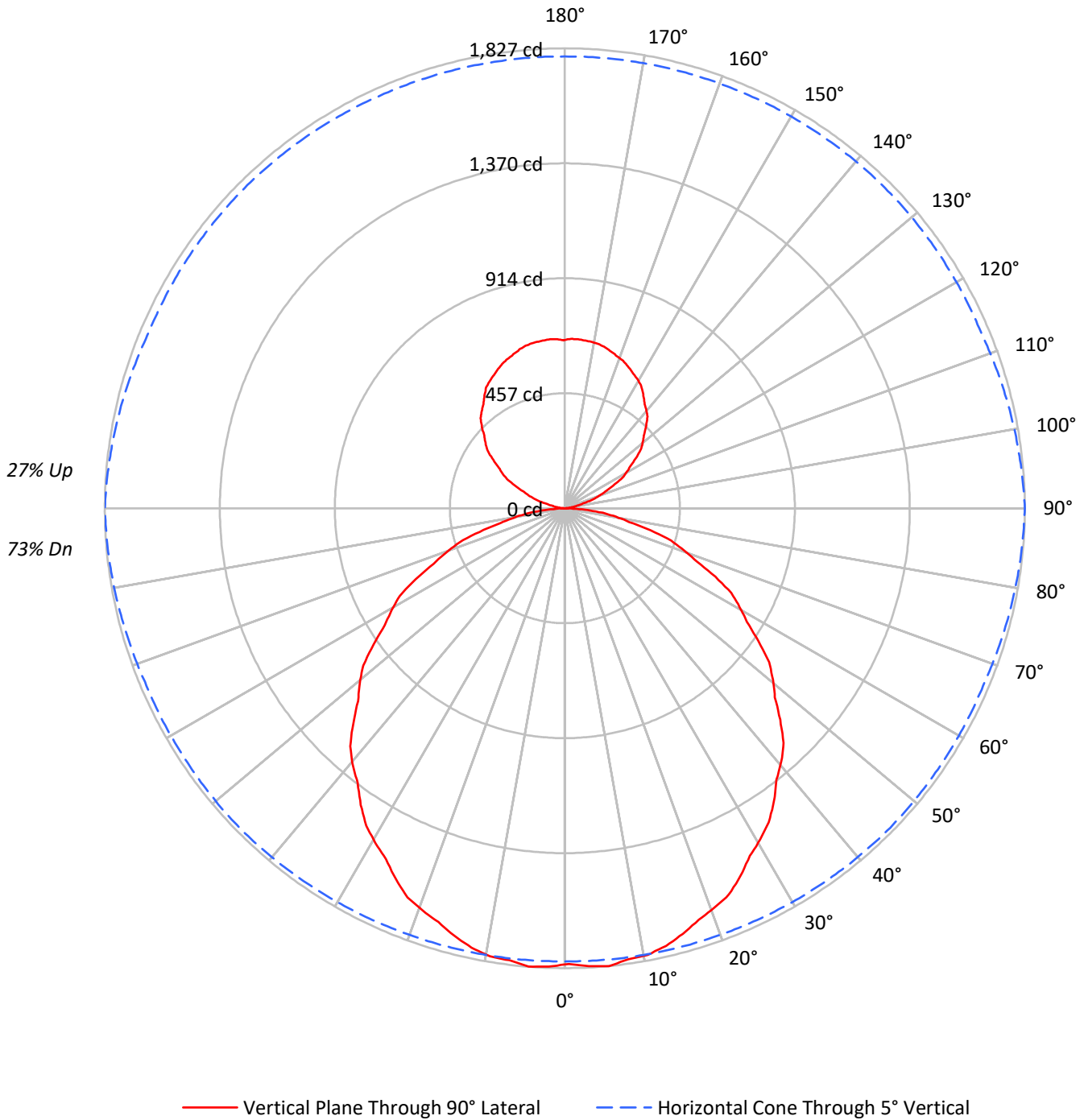
Lumens per Lamp: N/A
Luminaire Lumens: 6917.5 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	103	98	94	90	97	93	90	86	84	81	79	76	74	72	68	66	65	61
2	93	86	79	74	88	81	76	71	74	69	65	66	63	60	60	57	54	51
3	85	75	67	61	80	72	65	59	65	59	54	59	54	50	53	49	46	43
4	78	66	58	52	74	63	56	50	57	51	46	52	47	43	47	43	40	37
5	72	59	51	44	68	57	49	43	51	45	40	47	41	37	42	38	34	32
6	66	53	45	39	62	51	43	37	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	38	33	42	36	31	38	33	29	35	30	27	24
8	57	44	36	30	54	42	34	29	38	32	27	35	30	26	32	27	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	30	25	22	20
10	49	37	29	24	47	35	28	24	33	26	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29237	29237	29237
5°	29180	29616	29096
10°	29229	29586	28857
15°	29195	29334	28866
20°	28909	29122	28251
25°	28461	28848	27872
30°	28280	28493	27509
35°	27839	28206	26840
40°	27457	27914	26519
45°	26909	27382	25848
50°	26302	26899	25314
55°	25633	26244	24408
60°	24826	25762	23621
65°	23717	25100	22254
70°	22419	23741	20908
75°	20524	21946	18846
80°	17703	19052	15974
85°	12653	14765	11115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	2.5
10°-20°	489.4	7.1
20°-30°	736.4	10.6
30°-40°	879.6	12.7
40°-50°	903.9	13.1
50°-60°	812.5	11.7
60°-70°	617.6	8.9
70°-80°	351.9	5.1
80°-90°	91.6	1.3
90°-100°	17.5	0.3
100°-110°	76.0	1.1
110°-120°	216.7	3.1
120°-130°	329.5	4.8
130°-140°	356.4	5.2
140°-150°	340.6	4.9
150°-160°	280.1	4.0
160°-170°	183.0	2.6
170°-180°	63.3	0.9
0°-30°	1397.2	20.2
0°-40°	2276.8	32.9
0°-60°	3993.1	57.7
0°-90°	5054.3	73.1
90°-120°	310.3	4.5
90°-150°	1336.8	19.3
90°-180°	1863.0	26.9
0°-180°	6917.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1811	1811	1811	1811	1811	
5°	1800	1812	1827	1799	1795	171
15°	1747	1740	1755	1735	1727	492
25°	1598	1624	1619	1599	1564	739
35°	1412	1433	1431	1399	1362	883
45°	1178	1192	1199	1161	1132	906
55°	911	929	932	891	867	812
65°	621	635	657	614	582	614
75°	329	340	352	323	302	348
85°	68	82	80	71	60	84
90°	0	0	0	0	0	2
95°	3	4	12	28	27	4
105°	18	45	88	60	65	20
115°	160	425	219	104	118	220
125°	637	561	351	172	148	560
135°	705	638	461	286	227	543
145°	735	688	550	407	347	460
155°	743	710	614	510	462	343
165°	726	710	658	590	562	206
175°	684	685	673	649	632	66
180°	668	668	668	668	668	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8	1810.8
2.5°	1808.3	1806.7	1814.1	1806.1	1821.5	1813.4	1808.3	1811.2	1795.0
5°	1800.4	1804.5	1811.8	1805.1	1827.3	1794.9	1799.4	1796.3	1795.2
7.5°	1794.4	1797.6	1795.7	1791.5	1809.5	1788.9	1787.0	1780.3	1778.3
10°	1782.8	1786.9	1780.8	1783.3	1804.6	1774.2	1774.5	1758.0	1760.1
12.5°	1761.3	1770.2	1768.3	1759.4	1784.7	1759.2	1764.6	1752.9	1748.5
15°	1746.6	1737.5	1740.4	1742.7	1754.9	1726.6	1735.2	1720.9	1726.9
17.5°	1715.6	1709.9	1711.8	1705.7	1719.7	1690.6	1695.3	1683.8	1679.8
20°	1682.5	1682.5	1684.5	1681.7	1694.9	1666.5	1668.0	1648.2	1644.2
22.5°	1657.6	1653.6	1664.7	1656.0	1667.6	1640.0	1639.8	1615.4	1624.3
25°	1597.6	1602.7	1624.5	1605.2	1619.3	1584.9	1598.6	1571.6	1564.5
27.5°	1551.7	1553.3	1565.3	1554.8	1564.7	1538.2	1550.4	1516.3	1506.1
30°	1516.9	1512.9	1535.5	1519.2	1528.3	1509.1	1510.7	1473.5	1475.5
32.5°	1468.9	1469.7	1495.0	1483.5	1487.7	1462.0	1466.8	1440.1	1429.2
35°	1412.4	1412.4	1433.1	1420.9	1431.0	1399.7	1398.9	1370.8	1361.7
37.5°	1346.6	1340.1	1365.2	1358.8	1366.7	1337.5	1327.3	1300.7	1295.5
40°	1302.7	1298.7	1317.2	1313.3	1324.4	1296.1	1281.0	1256.2	1258.2
42.5°	1246.4	1250.5	1265.9	1267.7	1273.9	1243.2	1233.8	1205.7	1207.7
45°	1178.5	1176.5	1192.0	1191.1	1199.2	1172.9	1161.0	1127.9	1132.0
47.5°	1094.3	1097.2	1113.8	1112.0	1123.1	1099.6	1080.5	1058.4	1053.3
50°	1047.1	1049.2	1061.6	1063.9	1070.9	1046.7	1031.6	1008.8	1007.8
52.5°	990.0	988.0	1006.2	1010.8	1016.3	998.5	979.5	953.3	949.9
55°	910.6	911.6	929.2	936.3	932.3	920.1	890.9	865.1	867.1
57.5°	823.4	830.9	839.2	851.6	852.4	832.8	813.7	788.6	784.5
60°	768.8	769.8	785.4	797.8	797.8	776.5	753.3	731.5	731.5
62.5°	706.7	711.8	724.9	736.6	742.3	725.1	696.2	673.6	671.9
65°	620.8	621.8	635.3	651.0	657.0	633.8	613.6	587.6	582.5
67.5°	532.1	536.3	547.2	559.5	566.6	541.5	520.3	500.0	501.6
70°	474.9	475.9	484.2	499.8	502.9	482.6	461.5	442.9	442.9
72.5°	412.9	419.5	426.3	440.2	442.4	424.6	407.7	389.8	385.7
75°	329.0	334.1	340.4	348.8	351.8	336.6	322.8	307.2	302.1
77.5°	245.8	250.7	261.4	262.6	262.0	251.5	240.7	229.0	223.9
80°	190.4	194.4	205.9	207.9	204.9	196.8	185.2	176.8	171.8
82.5°	138.2	145.5	153.8	155.7	151.9	147.9	138.0	128.0	123.8
85°	68.3	72.3	81.7	85.7	79.7	77.7	71.4	63.0	60.0
87.5°	13.2	16.5	24.8	30.5	23.2	27.2	20.7	14.9	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.9	0.9	0.9	1.8	2.7	9.8	10.9	9.5	9.5
95°	2.8	2.8	4.0	12.5	11.9	20.2	28.3	26.6	26.6
97.5°	5.8	6.3	9.1	36.9	27.8	27.0	38.3	42.6	43.4
100°	8.5	9.1	13.6	60.2	41.4	35.3	41.9	49.9	51.6
102.5°	11.7	12.7	21.8	94.7	58.2	41.4	47.8	54.9	57.0
105°	17.6	19.2	44.8	158.8	87.9	54.1	60.1	63.0	64.6
107.5°	26.1	32.8	120.6	223.1	124.7	71.4	77.8	77.3	78.8
110°	35.1	49.0	208.6	258.3	151.9	84.8	85.0	89.5	87.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	58.3	97.4	311.1	292.2	179.1	101.0	91.8	101.8	102.4
115°	159.8	274.6	425.1	339.6	219.4	129.6	104.3	114.0	117.9
117.5°	396.3	477.7	483.5	381.8	259.5	161.5	118.6	122.9	128.0
120°	537.4	554.0	510.7	407.6	286.3	184.3	130.4	128.8	134.3
122.5°	592.7	586.7	532.9	431.7	312.6	208.4	144.9	136.0	139.8
125°	637.1	621.6	560.6	465.0	350.9	244.5	172.3	147.9	147.9
127.5°	663.6	645.6	586.0	494.6	385.4	280.9	205.3	167.3	162.1
130°	679.1	659.7	601.4	515.1	408.1	304.5	228.4	184.0	175.7
132.5°	690.9	673.2	615.9	531.1	430.3	327.6	251.6	204.8	191.1
135°	705.1	690.2	638.3	555.6	461.4	362.2	286.3	240.6	226.7
137.5°	714.3	702.7	658.3	575.8	490.2	396.5	321.3	275.4	262.9
140°	719.3	709.9	668.3	587.7	507.9	418.7	345.8	299.0	287.4
142.5°	724.3	716.7	675.6	600.9	525.1	440.8	369.8	323.0	310.5
145°	734.6	725.7	687.6	616.9	549.8	471.7	407.0	358.0	346.9
147.5°	741.9	731.2	697.4	634.0	573.2	499.7	441.1	393.8	382.8
150°	743.7	732.6	702.9	643.2	587.2	516.9	462.0	416.9	406.4
152.5°	742.3	733.9	707.0	651.0	599.0	533.5	481.0	439.2	429.5
155°	743.1	735.4	710.2	661.5	613.9	556.8	509.6	472.5	462.5
157.5°	739.7	734.6	712.5	669.6	627.6	577.6	535.8	504.6	494.5
160°	739.7	732.0	712.5	674.3	637.1	591.1	552.1	524.1	515.8
162.5°	734.7	727.9	712.1	677.6	646.2	603.7	567.5	541.4	535.3
165°	725.5	720.0	709.7	681.9	657.5	620.9	589.5	566.2	562.3
167.5°	718.4	710.8	705.1	681.8	665.2	633.3	608.1	588.8	586.6
170°	710.2	705.3	700.6	680.5	668.9	642.3	621.2	601.9	599.7
172.5°	699.8	697.0	694.7	679.7	671.1	649.8	632.6	615.0	611.0
175°	683.6	685.8	685.3	677.8	673.4	659.5	649.0	636.4	631.5
177.5°	673.6	672.7	675.0	673.6	673.2	664.7	661.8	653.3	655.9
180°	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7	667.7

(END OF REPORT)