

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: P522444

Luminaire Tested: **SQW-F-0U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522444
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-0U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

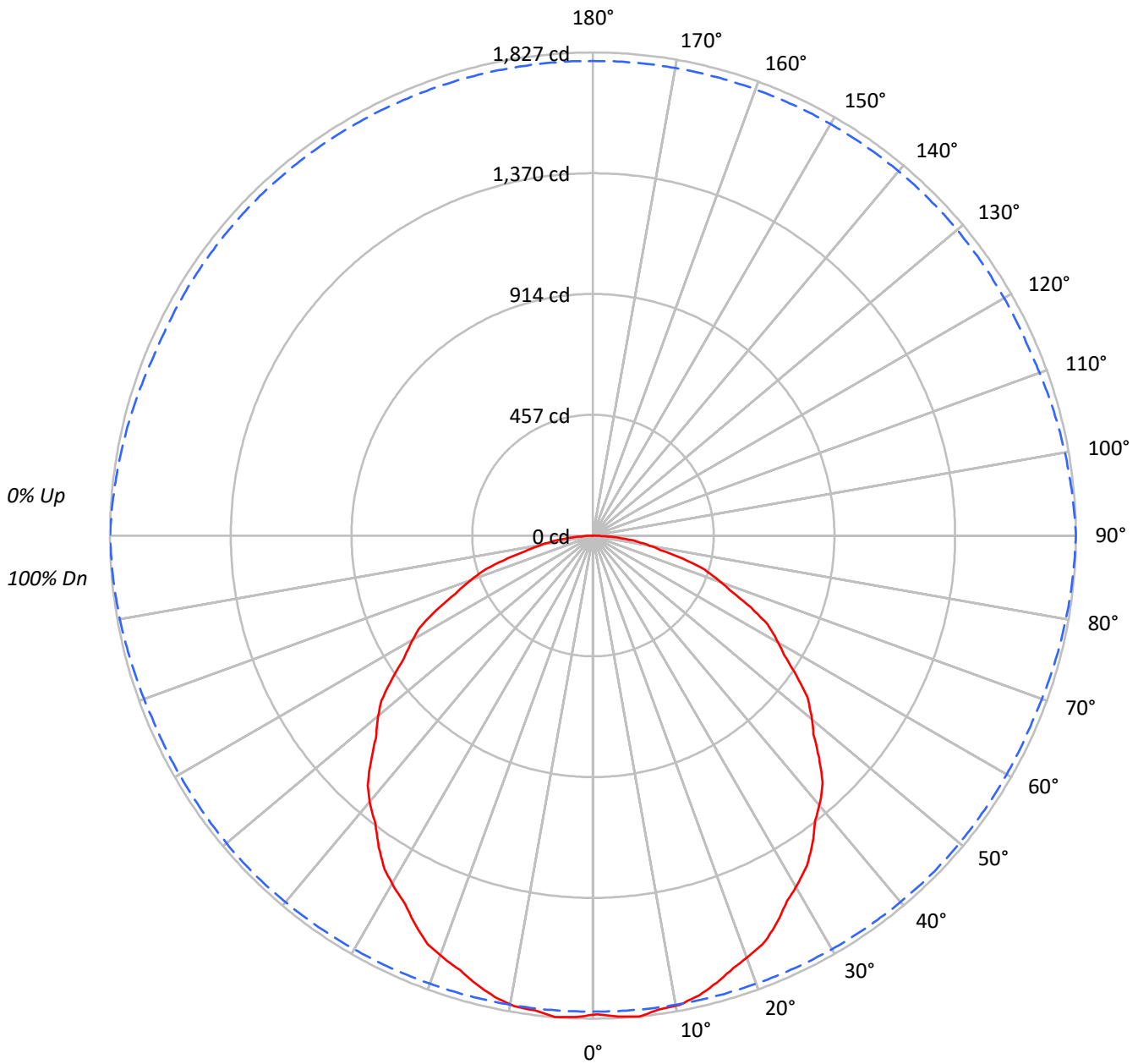
Lumens per Lamp: N/A
Luminaire Lumens: 5054.3 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 59.2
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



— Vertical Plane Through 90° Lateral - - - Horizontal Cone Through 5° Vertical



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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	109	104	100	96	106	102	98	94	97	94	91	94	91	88	90	88	86	84				
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70				
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59				
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50				
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43				
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38				
7	65	51	43	36	63	51	42	36	49	41	36	48	41	36	46	40	35	33				
8	60	47	38	32	59	46	38	32	45	37	32	44	37	32	42	36	32	30				
9	56	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27				
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24				

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	3.4
10°-20°	489.4	9.7
20°-30°	736.4	14.6
30°-40°	879.6	17.4
40°-50°	903.9	17.9
50°-60°	812.5	16.1
60°-70°	617.6	12.2
70°-80°	351.9	7.0
80°-90°	91.6	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1397.2	27.6
0°-40°	2276.8	45.0
0°-60°	3993.1	79.0
0°-90°	5054.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5054.3	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	86
90°	0	0	0	0	0	



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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

(END OF REPORT)