

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: P522357

Luminaire Tested: **SQW-F-050U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522357
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-050U-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

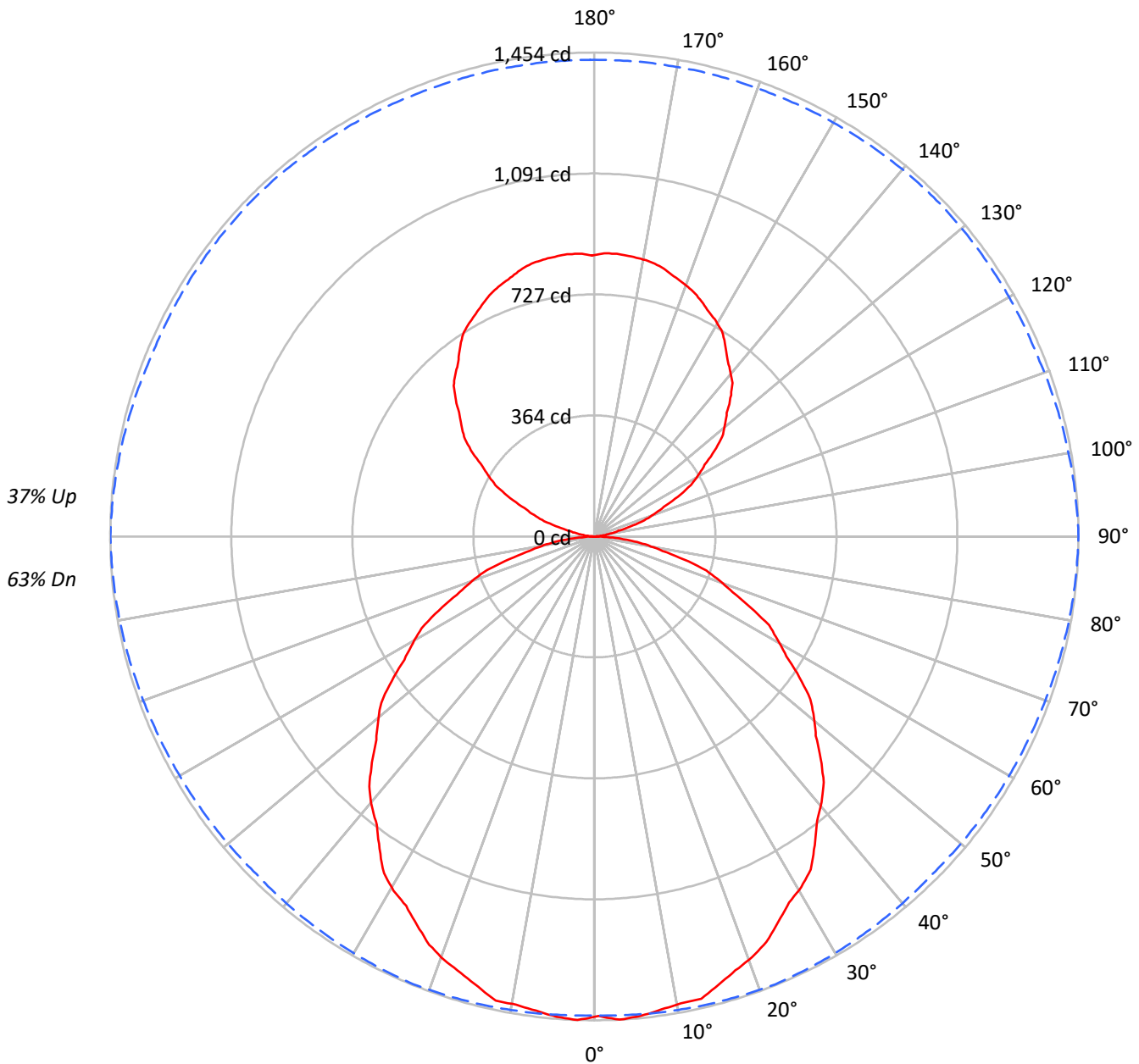
Lumens per Lamp: N/A
Luminaire Lumens: 6385.7 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.27 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 62.1
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 2.5° 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	0
RCR																		
0	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	101	96	92	88	94	90	87	84	79	77	74	69	67	65	60	59	57	53
2	91	84	77	72	85	79	73	68	69	65	61	61	57	54	53	50	48	44
3	83	73	66	60	78	69	62	57	61	56	51	53	49	46	46	43	41	37
4	76	65	57	50	71	61	54	48	54	48	44	48	43	39	41	38	35	32
5	70	58	49	43	65	55	47	41	48	42	38	43	38	34	37	33	30	27
6	64	52	44	37	60	49	41	36	44	37	33	38	33	30	34	30	27	24
7	60	47	39	33	56	44	37	32	40	33	29	35	30	26	31	27	24	21
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21	19
9	52	39	31	26	48	37	30	25	33	27	23	29	25	21	26	22	19	17
10	48	36	28	23	45	34	27	22	30	25	21	27	22	19	24	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	23276	23276	23276
5°	23551	23467	23110
10°	23309	23396	23069
15°	23398	23363	22925
20°	22847	23206	22397
25°	22812	22869	22030
30°	22527	22820	21806
35°	22003	22456	21425
40°	21785	22160	20993
45°	21571	21763	20614
50°	20813	21469	20024
55°	20614	21056	19319
60°	19695	20437	18613
65°	18823	19786	17666
70°	17977	18864	16494
75°	16706	17361	14878
80°	14300	15174	12450
85°	10652	11819	8522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.5	2.1
10°-20°	390.2	6.1
20°-30°	585.8	9.2
30°-40°	700.3	11.0
40°-50°	720.6	11.3
50°-60°	648.7	10.2
60°-70°	492.7	7.7
70°-80°	281.1	4.4
80°-90°	73.6	1.2
90°-100°	22.2	0.3
100°-110°	96.1	1.5
110°-120°	274.1	4.3
120°-130°	416.8	6.5
130°-140°	450.8	7.1
140°-150°	430.7	6.7
150°-160°	354.2	5.5
160°-170°	231.5	3.6
170°-180°	80.1	1.3
0°-30°	1112.5	17.4
0°-40°	1812.7	28.4
0°-60°	3182.0	49.8
0°-90°	4029.4	63.1
90°-120°	392.4	6.1
90°-150°	1690.6	26.5
90°-180°	2356.0	36.9
0°-180°	6385.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1442	1442	1442	1442	1442	
5°	1453	1442	1448	1423	1426	137
15°	1400	1391	1398	1378	1372	391
25°	1280	1288	1284	1270	1237	588
35°	1116	1144	1139	1114	1087	703
45°	945	952	953	932	903	722
55°	732	745	748	718	686	648
65°	493	506	518	482	462	490
75°	268	275	278	254	238	280
85°	58	66	64	58	46	69
90°	0	0	0	0	0	2
95°	4	5	15	36	34	5
105°	22	57	111	76	82	26
115°	202	538	277	132	149	278
125°	806	709	444	218	187	708
135°	892	807	584	362	287	687
145°	929	870	695	515	439	582
155°	940	898	776	644	585	434
165°	918	898	832	746	711	261
175°	864	867	852	821	799	84
180°	844	844	844	844	844	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6	1441.6
2.5°	1439.9	1451.4	1435.8	1440.3	1454.2	1437.0	1441.6	1433.2	1432.4
5°	1453.1	1435.7	1441.6	1433.6	1447.9	1434.6	1422.8	1438.2	1425.9
7.5°	1428.4	1417.2	1440.2	1428.6	1436.2	1427.2	1428.4	1419.9	1419.7
10°	1421.7	1414.6	1421.7	1421.9	1427.0	1414.7	1413.4	1404.0	1407.1
12.5°	1402.5	1412.5	1401.7	1415.3	1426.1	1404.9	1396.6	1399.9	1405.4
15°	1399.8	1396.7	1391.4	1387.5	1397.7	1373.1	1377.8	1368.5	1371.5
17.5°	1357.3	1363.0	1365.7	1362.3	1371.5	1349.2	1343.9	1343.9	1345.4
20°	1329.7	1342.0	1350.6	1341.4	1350.6	1333.2	1329.7	1316.8	1303.5
22.5°	1314.6	1312.2	1329.7	1311.3	1323.8	1302.3	1312.1	1289.7	1296.8
25°	1280.5	1270.3	1287.8	1277.5	1283.7	1266.3	1270.1	1242.7	1236.6
27.5°	1235.1	1235.1	1245.8	1241.5	1245.8	1231.9	1228.0	1203.0	1200.6
30°	1208.3	1200.1	1219.8	1210.7	1224.0	1191.3	1193.7	1173.7	1169.6
32.5°	1172.3	1175.6	1188.9	1177.3	1193.1	1162.0	1167.7	1137.1	1142.0
35°	1116.3	1122.4	1143.5	1128.0	1139.3	1120.9	1114.2	1094.1	1087.0
37.5°	1080.5	1071.1	1081.3	1082.2	1085.7	1065.5	1058.1	1033.9	1036.1
40°	1033.6	1031.6	1046.2	1050.4	1051.4	1032.0	1026.3	997.0	996.0
42.5°	990.9	993.0	1005.2	1010.2	1010.4	991.0	990.3	958.6	962.5
45°	944.7	941.6	952.0	951.0	953.1	932.6	932.1	901.8	902.8
47.5°	872.1	878.6	885.7	887.8	895.7	878.3	866.0	841.9	838.2
50°	828.6	840.8	842.2	851.7	854.7	833.2	823.3	803.3	797.2
52.5°	790.1	796.6	802.0	808.2	812.9	793.0	778.1	759.1	757.8
55°	732.3	728.2	744.9	742.9	748.0	732.7	717.7	696.5	686.3
57.5°	657.6	665.6	669.3	677.2	680.6	663.9	650.7	628.3	627.5
60°	609.9	621.2	622.5	636.0	632.9	618.6	604.7	584.6	576.4
62.5°	566.4	569.5	578.1	587.6	588.6	572.6	562.0	540.3	534.6
65°	492.7	498.9	506.3	518.9	517.9	506.6	482.3	470.6	462.4
67.5°	426.0	428.0	438.1	444.1	448.2	432.6	418.7	402.3	398.8
70°	380.8	378.8	391.3	395.5	399.6	387.4	373.5	358.6	349.4
72.5°	331.4	333.5	342.7	349.5	351.9	339.7	324.9	313.5	307.6
75°	267.8	265.8	275.1	279.3	278.3	269.1	254.2	246.7	238.5
77.5°	197.3	201.4	206.9	210.7	209.2	203.1	191.4	180.1	176.6
80°	153.8	157.9	164.2	166.3	163.2	157.1	149.6	139.0	133.9
82.5°	113.6	116.1	122.4	126.1	121.4	117.7	111.1	103.0	97.1
85°	57.5	59.6	65.9	67.9	63.8	63.8	57.5	50.1	46.0
87.5°	13.4	14.2	19.2	25.0	20.1	21.7	16.7	12.5	9.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	1.1	1.1	1.1	2.3	3.4	12.4	13.8	12.0	12.0
95°	3.6	3.6	5.0	15.8	15.1	25.6	35.8	33.7	33.7
97.5°	7.3	8.0	11.5	46.6	35.1	34.1	48.5	53.9	54.9
100°	10.8	11.5	17.2	76.2	52.3	44.6	53.0	63.1	65.2
102.5°	14.8	16.0	27.5	119.8	73.5	52.4	60.5	69.5	72.1
105°	22.2	24.3	56.6	200.8	111.1	68.4	76.0	79.6	81.7
107.5°	33.0	41.5	152.5	282.2	157.7	90.3	98.4	97.8	99.6
110°	44.4	62.0	263.8	326.7	192.1	107.3	107.5	113.2	111.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	73.7	123.2	393.4	369.5	226.5	127.7	116.1	128.8	129.5
115°	202.2	347.2	537.6	429.5	277.4	163.9	131.9	144.2	149.1
117.5°	501.2	604.1	611.5	482.8	328.2	204.3	150.0	155.4	161.9
120°	679.6	700.6	645.9	515.5	362.0	233.0	164.9	162.9	169.9
122.5°	749.5	742.0	674.0	546.0	395.3	263.5	183.2	172.0	176.8
125°	805.7	786.1	709.0	588.1	443.7	309.2	217.9	187.1	187.1
127.5°	839.3	816.4	741.1	625.5	487.5	355.3	259.6	211.6	205.0
130°	858.8	834.3	760.6	651.4	516.1	385.1	288.9	232.7	222.2
132.5°	873.7	851.4	778.9	671.7	544.2	414.3	318.1	259.0	241.7
135°	891.8	872.8	807.2	702.7	583.5	458.1	362.0	304.3	286.7
137.5°	903.4	888.7	832.6	728.2	619.9	501.5	406.3	348.3	332.5
140°	909.7	897.8	845.2	743.2	642.3	529.5	437.3	378.2	363.4
142.5°	916.0	906.3	854.3	760.0	664.1	557.4	467.7	408.5	392.7
145°	929.0	917.8	869.5	780.2	695.3	596.5	514.7	452.7	438.7
147.5°	938.2	924.8	882.0	801.8	724.9	631.9	557.9	498.0	484.2
150°	940.5	926.5	888.9	813.5	742.7	653.6	584.2	527.3	514.0
152.5°	938.8	928.1	894.1	823.3	757.6	674.7	608.3	555.4	543.2
155°	939.8	930.0	898.2	836.6	776.4	704.2	644.5	597.6	585.0
157.5°	935.5	929.0	901.1	846.8	793.7	730.5	677.6	638.1	625.4
160°	935.5	925.7	901.1	852.7	805.7	747.6	698.2	662.8	652.3
162.5°	929.2	920.5	900.5	856.9	817.2	763.5	717.7	684.7	677.0
165°	917.6	910.6	897.5	862.4	831.5	785.3	745.5	716.0	711.1
167.5°	908.5	898.9	891.8	862.2	841.3	800.9	769.0	744.6	741.8
170°	898.2	891.9	886.0	860.6	845.9	812.2	785.7	761.2	758.4
172.5°	885.0	881.5	878.6	859.5	848.8	821.8	800.0	777.8	772.8
175°	864.5	867.3	866.7	857.2	851.6	834.1	820.8	804.9	798.6
177.5°	851.9	850.8	853.6	851.9	851.3	840.7	837.0	826.2	829.5
180°	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5	844.5

(END OF REPORT)