

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: P511792

Luminaire Tested: **SQW-F-075U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511792
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-17,
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

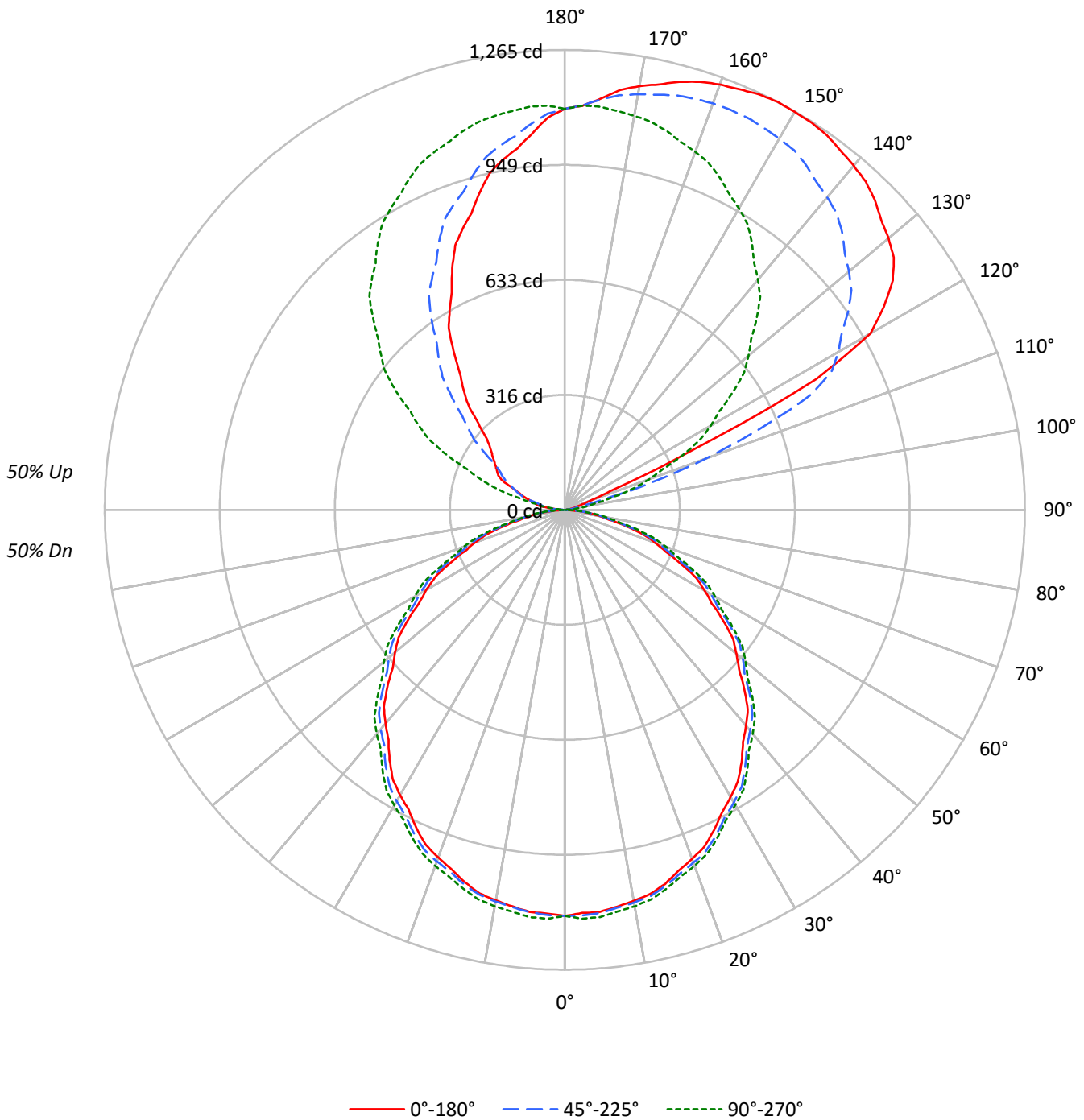
Lumens per Lamp: N/A
Luminaire Lumens: 6133.8 lumens
Efficiency: N/A
Efficacy: 128.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 47.8
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	70	68	61	59	57	49	48	47	42
2	89	81	75	70	82	75	70	65	64	60	56	53	50	48	43	41	40	35
3	81	71	64	58	74	66	60	55	56	51	47	47	43	40	38	36	34	29
4	74	63	55	49	68	59	52	46	50	44	40	42	38	34	34	31	29	25
5	68	56	48	42	62	52	45	40	45	39	35	37	33	30	31	28	25	22
6	63	50	42	36	57	47	40	34	40	34	30	34	29	26	28	25	22	19
7	58	45	37	32	53	42	35	30	36	31	26	31	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	14
10	47	34	27	22	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36070	36070	36070
5°	35981	36435	35981
10°	35807	36299	35774
15°	35604	36072	35470
20°	35120	35808	34983
25°	34597	35416	34419
30°	34006	34976	33782
35°	33390	34454	33114
40°	32669	33892	32332
45°	31876	33292	31511
50°	30946	32604	30594
55°	29951	31753	29557
60°	28675	30806	28352
65°	26972	29570	26743
70°	24926	27852	24737
75°	21709	24953	21709
80°	17480	20828	18038
85°	10004	14079	11856



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	1.7
10°-20°	300.9	4.9
20°-30°	450.9	7.4
30°-40°	536.1	8.7
40°-50°	548.8	8.9
50°-60°	489.3	8.0
60°-70°	365.6	6.0
70°-80°	199.3	3.2
80°-90°	47.5	0.8
90°-100°	27.8	0.5
100°-110°	128.9	2.1
110°-120°	375.9	6.1
120°-130°	546.3	8.9
130°-140°	584.5	9.5
140°-150°	559.2	9.1
150°-160°	461.1	7.5
160°-170°	301.6	4.9
170°-180°	104.6	1.7
0°-30°	857.4	14.0
0°-40°	1393.5	22.7
0°-60°	2431.6	39.6
0°-90°	3044.0	49.6
90°-120°	532.6	8.7
90°-150°	2222.6	36.2
90°-180°	3090.0	50.4
0°-180°	6133.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1117	1117	1117	1117	1117	
5°	1110	1113	1124	1111	1110	105
15°	1065	1071	1079	1067	1061	300
25°	971	986	994	982	966	447
35°	847	864	874	859	840	529
45°	698	719	729	711	690	538
55°	532	553	564	547	525	475
65°	353	371	387	369	350	350
75°	174	187	200	188	174	186
85°	27	35	38	39	32	39
90°	2	2	1	4	8	2
95°	8	10	21	34	31	9
105°	34	100	143	91	98	42
115°	378	744	358	171	189	444
125°	1101	951	564	261	238	973
135°	1205	1079	746	439	337	930
145°	1257	1158	896	640	534	787
155°	1261	1190	1008	817	733	583
165°	1219	1180	1079	960	904	346
175°	1135	1133	1113	1065	1038	110
180°	1103	1103	1103	1103	1103	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0	1117.0
2.5°	1109.8	1115.3	1116.2	1114.8	1125.8	1115.6	1115.4	1115.3	1111.4
5°	1110.0	1110.0	1113.0	1111.3	1124.0	1111.3	1111.0	1109.0	1110.0
7.5°	1100.8	1102.0	1104.2	1102.3	1114.2	1101.3	1102.0	1099.0	1100.6
10°	1092.0	1094.0	1097.0	1094.3	1107.0	1093.3	1094.0	1091.0	1091.0
12.5°	1082.4	1084.4	1088.2	1084.7	1097.4	1084.5	1084.4	1080.6	1080.6
15°	1065.0	1067.0	1071.0	1067.3	1079.0	1065.3	1067.0	1062.0	1061.0
17.5°	1040.4	1044.5	1049.8	1046.1	1058.0	1044.1	1045.0	1038.2	1036.4
20°	1022.0	1026.9	1033.0	1029.3	1042.0	1027.3	1029.0	1019.0	1018.0
22.5°	1002.8	1006.9	1015.4	1011.7	1023.6	1009.7	1011.4	998.2	998.0
25°	971.0	974.9	986.0	983.2	994.0	980.3	982.0	967.0	966.0
27.5°	936.8	941.9	953.0	950.4	961.2	946.5	948.2	932.0	930.0
30°	912.0	917.9	929.0	927.2	938.0	923.3	925.0	908.0	906.0
32.5°	885.6	893.0	904.2	903.2	913.2	899.3	898.6	882.3	879.6
35°	847.0	852.9	864.0	865.2	874.0	861.3	859.0	842.9	840.0
37.5°	804.6	810.7	821.8	824.4	832.0	819.5	815.8	799.7	796.6
40°	775.0	781.8	793.0	797.2	804.0	792.3	787.0	770.9	767.0
42.5°	744.6	752.2	764.2	768.3	774.4	762.7	756.6	741.3	736.6
45°	698.0	705.8	719.0	724.1	729.0	718.2	711.0	694.9	690.0
47.5°	649.6	657.4	671.0	677.3	681.0	672.2	663.8	647.7	641.8
50°	616.0	623.8	639.0	646.1	649.0	640.2	631.0	614.9	609.0
52.5°	583.2	590.2	605.4	613.2	615.4	608.2	598.2	582.8	576.2
55°	532.0	538.8	553.0	562.0	564.0	558.1	547.0	530.9	525.0
57.5°	479.2	486.0	500.0	510.0	512.2	506.3	494.2	480.0	473.4
60°	444.0	450.8	464.0	474.1	477.0	471.1	459.0	444.9	439.0
62.5°	408.0	413.3	427.2	437.3	441.8	436.7	423.8	408.1	403.0
65°	353.0	358.9	371.0	383.1	387.0	383.1	369.0	354.9	350.0
67.5°	300.0	303.9	315.0	326.9	331.8	327.5	314.8	300.3	297.2
70°	264.0	267.9	279.0	290.1	295.0	289.1	278.0	265.9	262.0
72.5°	226.4	230.3	240.6	251.7	255.8	249.9	240.4	229.9	225.2
75°	174.0	177.9	187.0	196.1	200.0	196.1	188.0	178.9	174.0
77.5°	125.2	128.9	136.8	144.6	146.4	143.9	138.2	130.3	126.6
80°	94.0	96.9	104.0	111.0	112.0	111.0	107.0	99.9	97.0
82.5°	66.0	68.2	75.2	80.6	80.0	82.2	78.2	72.0	69.8
85°	27.0	29.0	35.0	40.9	38.0	42.9	39.0	34.9	32.0
87.5°	3.6	3.6	6.8	11.4	10.6	13.9	11.2	9.4	8.1
90°	2.1	2.1	2.1	1.0	1.0	2.0	4.1	7.3	8.3
92.5°	3.7	4.5	4.6	5.2	6.0	11.9	8.3	9.7	9.9
95°	8.3	8.3	10.4	24.8	20.7	30.9	34.2	32.1	31.1
97.5°	13.7	14.7	20.1	65.1	46.6	41.4	56.4	60.2	56.6
100°	18.7	19.7	30.1	102.8	67.4	53.2	62.2	73.6	75.7
102.5°	24.5	26.3	46.6	158.6	94.7	67.6	71.3	81.9	84.8
105°	34.2	39.3	99.5	262.6	143.0	89.3	91.2	94.4	98.5
107.5°	53.1	71.3	252.7	372.8	202.5	117.2	121.3	118.4	118.6
110°	74.6	113.1	413.5	436.1	245.6	139.2	137.8	135.7	132.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	135.1	236.9	576.0	492.3	291.2	162.9	151.1	160.5	154.2
115°	378.3	573.9	744.1	569.4	357.6	203.5	171.0	184.6	188.6
117.5°	780.2	868.8	827.9	637.9	421.0	250.9	190.1	199.8	206.5
120°	970.1	967.0	868.5	680.1	463.3	285.9	204.2	210.5	215.6
122.5°	1039.7	1010.7	902.5	718.3	503.9	323.3	223.2	219.6	225.5
125°	1100.7	1061.1	951.4	770.5	563.8	380.4	261.2	234.3	238.4
127.5°	1140.3	1096.9	993.3	818.4	621.8	440.9	311.3	257.5	252.7
130°	1161.8	1119.3	1019.8	847.6	659.2	479.8	346.2	280.6	268.4
132.5°	1180.1	1139.9	1044.7	876.0	695.6	519.5	383.5	309.5	291.6
135°	1205.3	1166.8	1078.9	917.5	746.2	577.0	439.4	362.2	336.8
137.5°	1224.6	1189.6	1105.9	954.6	795.3	633.6	498.1	420.4	394.5
140°	1235.4	1202.0	1122.4	978.0	826.0	670.0	537.9	458.6	434.3
142.5°	1245.4	1212.7	1136.5	998.9	855.0	704.7	578.5	497.5	473.2
145°	1257.2	1225.8	1157.7	1029.3	896.5	756.7	639.5	557.1	533.8
147.5°	1262.8	1233.8	1172.8	1056.2	933.6	804.7	696.1	617.0	593.5
150°	1264.4	1237.1	1179.4	1072.2	957.6	836.0	731.7	657.6	633.2
152.5°	1265.3	1237.1	1184.4	1085.6	979.2	864.1	766.5	696.6	673.9
155°	1261.3	1236.0	1189.8	1101.7	1008.4	904.1	816.7	753.0	732.7
157.5°	1252.2	1233.5	1190.6	1115.2	1032.9	941.5	864.4	806.1	787.1
160°	1244.7	1228.5	1189.8	1122.8	1047.8	963.7	893.4	840.1	821.9
162.5°	1234.8	1218.6	1185.7	1126.3	1061.1	984.3	920.7	870.0	855.0
165°	1218.8	1203.6	1180.5	1131.6	1078.9	1015.1	959.7	915.9	903.8
167.5°	1198.5	1189.0	1169.1	1133.7	1093.2	1041.5	995.4	959.7	949.4
170°	1183.6	1176.5	1160.8	1133.1	1100.7	1057.1	1017.8	985.5	978.4
172.5°	1164.5	1160.7	1150.0	1130.0	1106.5	1071.0	1037.7	1009.5	1002.4
175°	1134.9	1136.9	1132.8	1125.3	1113.1	1088.8	1065.4	1045.6	1038.5
177.5°	1112.7	1112.7	1113.5	1114.3	1112.7	1102.2	1090.3	1078.7	1079.5
180°	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7	1102.7

(END OF REPORT)