

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: P522541

Luminaire Tested: **SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (4500K)**

Issue Date: 5/11/2021

Test Information

Test Method: LM-79-08
Report Number: P522541
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-53,
Test Lab: INNOVATION CENTER
Issue Date: 5/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-075U-025D-93050-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3000K/5000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

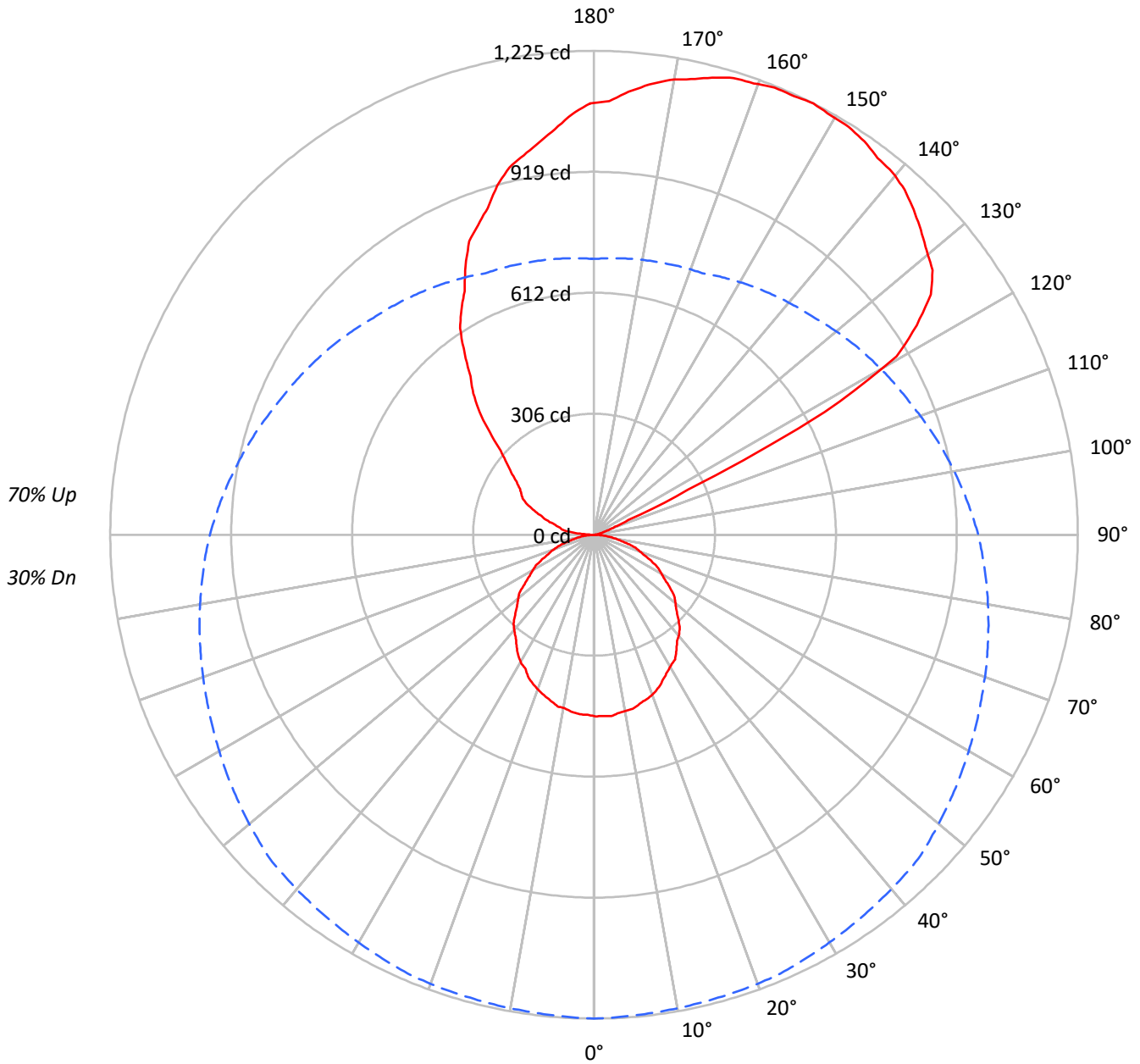
Lumens per Lamp: N/A
Luminaire Lumens: 4314.7 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.26 / 1.36
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 39.7
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 0° Lateral - - - Horizontal Cone Through 152.5° 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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	37	37	37	30
1	93	89	85	82	83	80	77	74	63	61	59	47	46	45	33	32	31	25
2	85	78	72	67	76	70	65	60	55	52	49	41	39	37	29	28	26	21
3	77	68	61	55	69	61	55	50	48	44	41	37	34	31	25	24	22	17
4	70	60	52	47	63	54	48	42	43	38	34	32	29	27	23	21	19	15
5	65	53	45	40	58	48	41	36	38	33	30	29	26	23	20	18	17	13
6	59	48	40	34	53	43	36	31	34	29	26	26	23	20	18	16	15	11
7	55	43	35	30	49	39	32	27	31	26	22	24	20	18	17	15	13	10
8	51	39	31	26	45	35	29	24	28	23	20	22	18	16	15	13	11	9
9	47	35	28	23	42	32	26	21	26	21	18	20	16	14	14	12	10	8
10	44	32	25	21	39	29	23	19	24	19	16	18	15	12	13	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	7427	7427	7427
5°	7473	7506	7391
10°	7425	7442	7309
15°	7383	7435	7265
20°	7380	7397	7187
25°	7235	7326	7108
30°	7154	7230	6963
35°	7082	7121	6800
40°	6993	6993	6671
45°	6786	6925	6508
50°	6699	6825	6340
55°	6503	6674	6075
60°	6278	6474	5851
65°	6067	6262	5559
70°	5717	6005	5235
75°	5271	5458	4697
80°	4640	4826	3970
85°	3390	3779	2631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.0
10°-20°	124.2	2.9
20°-30°	186.7	4.3
30°-40°	222.8	5.2
40°-50°	228.9	5.3
50°-60°	205.4	4.8
60°-70°	155.5	3.6
70°-80°	88.8	2.1
80°-90°	23.3	0.5
90°-100°	27.6	0.6
100°-110°	122.3	2.8
110°-120°	351.6	8.1
120°-130°	535.5	12.4
130°-140°	581.3	13.5
140°-150°	555.9	12.9
150°-160°	458.0	10.6
160°-170°	299.7	6.9
170°-180°	103.7	2.4
0°-30°	354.4	8.2
0°-40°	577.2	13.4
0°-60°	1011.6	23.4
0°-90°	1279.2	29.6
90°-120°	501.5	11.6
90°-150°	2174.2	50.4
90°-180°	3036.0	70.4
0°-180°	4314.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	460	460	460	460	460	
5°	461	459	463	456	456	44
15°	442	445	445	441	435	125
25°	406	410	411	406	399	188
35°	359	361	361	353	345	225
45°	297	303	303	292	285	230
55°	231	236	237	225	216	207
65°	159	162	164	153	146	156
75°	84	88	88	80	75	89
85°	18	21	20	17	14	22
90°	0	0	0	0	0	1
95°	4	6	19	43	42	6
105°	28	74	140	97	103	32
115°	264	693	354	166	186	364
125°	1047	912	565	280	238	919
135°	1154	1045	749	464	370	891
145°	1208	1125	894	660	564	757
155°	1220	1170	1000	828	755	565
165°	1195	1164	1073	964	917	339
175°	1125	1128	1105	1056	1031	109
180°	1092	1092	1092	1092	1092	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0
2.5°	459.2	460.0	461.7	459.3	462.5	459.3	460.0	458.4	456.0
5°	461.1	459.1	459.0	459.1	463.1	458.1	456.0	455.0	456.0
7.5°	455.4	455.8	455.6	455.3	459.6	451.9	454.9	451.9	452.3
10°	452.9	450.9	453.9	451.9	453.9	450.9	450.9	447.8	445.8
12.5°	450.5	449.3	450.7	447.1	453.1	445.4	444.4	443.8	444.2
15°	441.7	444.7	444.8	441.8	444.8	437.8	440.7	436.6	434.6
17.5°	436.8	433.8	435.2	432.8	436.2	430.5	430.1	425.9	426.5
20°	429.5	426.5	429.5	425.5	430.5	421.6	424.4	419.3	418.3
22.5°	419.7	419.1	423.0	419.8	420.8	415.8	415.5	409.5	408.5
25°	406.1	407.1	410.2	405.2	411.2	403.2	406.1	397.0	399.0
27.5°	394.3	394.5	398.0	395.5	396.7	390.6	390.8	383.1	381.7
30°	383.7	384.7	389.8	385.8	387.8	380.8	382.7	372.5	373.5
32.5°	376.4	374.2	378.4	374.4	378.0	371.0	371.3	363.5	362.1
35°	359.3	359.3	361.3	361.3	361.3	354.3	353.2	346.0	345.0
37.5°	341.6	340.8	347.7	342.4	344.8	339.1	336.9	329.9	328.7
40°	331.8	327.8	333.8	331.8	331.8	326.8	324.7	318.5	316.5
42.5°	318.0	317.2	321.6	320.5	322.8	314.7	312.5	305.5	304.3
45°	297.2	298.2	303.3	301.3	303.3	298.3	292.1	287.0	285.0
47.5°	279.7	278.1	282.9	282.8	284.8	277.2	274.4	266.7	266.3
50°	266.7	266.7	270.7	269.8	271.7	265.8	260.6	254.4	252.4
52.5°	253.6	252.0	256.9	256.7	257.1	251.9	246.7	241.4	240.2
55°	231.0	232.0	236.1	236.1	237.1	232.2	224.9	218.8	215.8
57.5°	209.9	209.3	213.1	214.3	214.3	209.4	202.9	197.8	196.6
60°	194.4	195.4	198.5	200.5	200.5	195.5	188.3	183.2	181.2
62.5°	179.7	179.9	183.8	185.1	186.7	180.9	174.4	169.3	167.3
65°	158.8	157.8	161.8	163.9	163.9	158.9	152.7	147.5	145.5
67.5°	135.0	136.4	139.6	140.9	141.9	135.9	129.9	126.6	125.6
70°	121.1	120.1	124.2	126.2	127.2	121.3	116.0	111.9	110.9
72.5°	106.5	106.3	109.5	111.6	111.8	105.8	101.4	98.1	95.5
75°	84.5	85.5	87.5	87.5	87.5	83.5	80.4	77.3	75.3
77.5°	62.9	63.9	65.7	67.6	66.6	63.0	59.8	56.8	55.0
80°	49.9	50.9	51.9	52.9	51.9	49.9	46.8	43.7	42.7
82.5°	36.8	37.0	39.7	39.9	38.9	36.9	34.6	31.5	31.3
85°	18.3	19.3	21.4	21.4	20.4	19.4	17.3	15.2	14.2
87.5°	4.1	4.9	6.5	8.1	6.5	6.5	4.9	3.2	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
92.5°	0.8	0.8	1.6	2.5	4.1	15.2	17.1	15.5	14.7
95°	4.1	4.1	6.1	19.3	19.3	31.3	42.7	41.7	41.7
97.5°	9.2	10.2	14.2	58.9	44.0	42.8	61.1	67.2	67.8
100°	13.2	14.2	22.4	96.0	65.1	55.2	65.1	79.5	82.4
102.5°	18.1	19.9	35.4	151.5	92.0	66.1	76.5	86.8	89.8
105°	27.5	30.5	74.3	253.9	140.5	87.7	96.7	101.8	102.8
107.5°	41.3	52.5	203.4	357.1	199.3	116.1	121.3	124.8	126.0
110°	56.0	79.9	353.2	419.4	243.3	137.8	134.3	143.5	141.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	94.2	164.3	518.5	470.5	287.2	163.4	146.6	161.4	162.6
115°	263.6	452.7	693.1	543.3	354.2	207.9	165.9	180.3	186.3
117.5°	661.6	787.1	785.1	610.6	418.5	260.3	189.1	196.0	202.7
120°	889.5	908.5	831.5	656.1	460.0	297.8	208.6	205.7	211.7
122.5°	974.2	958.9	866.5	696.0	502.4	337.0	233.9	216.3	221.5
125°	1047.3	1017.4	911.9	753.0	564.9	394.7	279.9	239.2	238.2
127.5°	1087.8	1056.6	956.3	802.4	622.3	454.7	332.2	271.5	262.4
130°	1107.3	1078.5	987.2	832.7	660.5	495.3	370.5	299.9	286.0
132.5°	1131.0	1099.7	1009.2	863.8	697.2	533.6	408.7	334.1	317.8
135°	1154.2	1125.3	1045.3	904.3	749.1	589.9	464.1	390.4	369.5
137.5°	1174.9	1148.5	1078.2	936.2	795.9	645.2	522.7	450.9	425.4
140°	1188.8	1159.9	1092.1	960.7	824.4	680.1	561.8	490.1	470.2
142.5°	1193.7	1175.9	1106.7	981.4	856.2	713.5	600.9	526.8	508.5
145°	1208.1	1196.2	1124.7	1006.1	893.6	763.2	660.5	583.8	563.9
147.5°	1217.5	1199.6	1141.1	1032.8	930.3	807.8	714.7	641.0	622.5
150°	1218.3	1204.4	1154.2	1049.2	954.7	840.2	748.1	678.5	661.6
152.5°	1224.8	1207.7	1160.7	1063.2	972.6	867.7	781.5	716.7	698.2
155°	1220.3	1208.4	1170.5	1081.1	1000.5	903.0	828.5	771.1	755.2
157.5°	1220.3	1205.6	1171.7	1095.0	1027.4	941.8	872.4	819.5	807.5
160°	1212.2	1206.2	1172.5	1104.9	1041.2	963.6	901.8	853.6	837.6
162.5°	1208.9	1199.0	1174.1	1111.5	1053.4	981.4	927.0	881.3	869.4
165°	1194.9	1185.9	1164.3	1114.5	1072.7	1013.0	963.8	923.0	917.0
167.5°	1178.8	1171.8	1157.6	1119.4	1085.6	1036.8	995.4	962.4	954.3
170°	1167.4	1156.5	1151.1	1121.9	1092.1	1051.3	1015.7	986.0	977.1
172.5°	1147.9	1146.5	1142.2	1115.7	1097.8	1064.1	1034.5	1007.3	1001.5
175°	1124.7	1124.7	1127.7	1111.3	1105.3	1077.4	1056.5	1040.0	1031.0
177.5°	1097.8	1098.6	1105.1	1104.3	1105.1	1089.2	1083.1	1067.6	1066.0
180°	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1	1092.1

(END OF REPORT)