

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: P511830

Luminaire Tested: **SQW-F-0U-100D-930-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511830
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-8)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

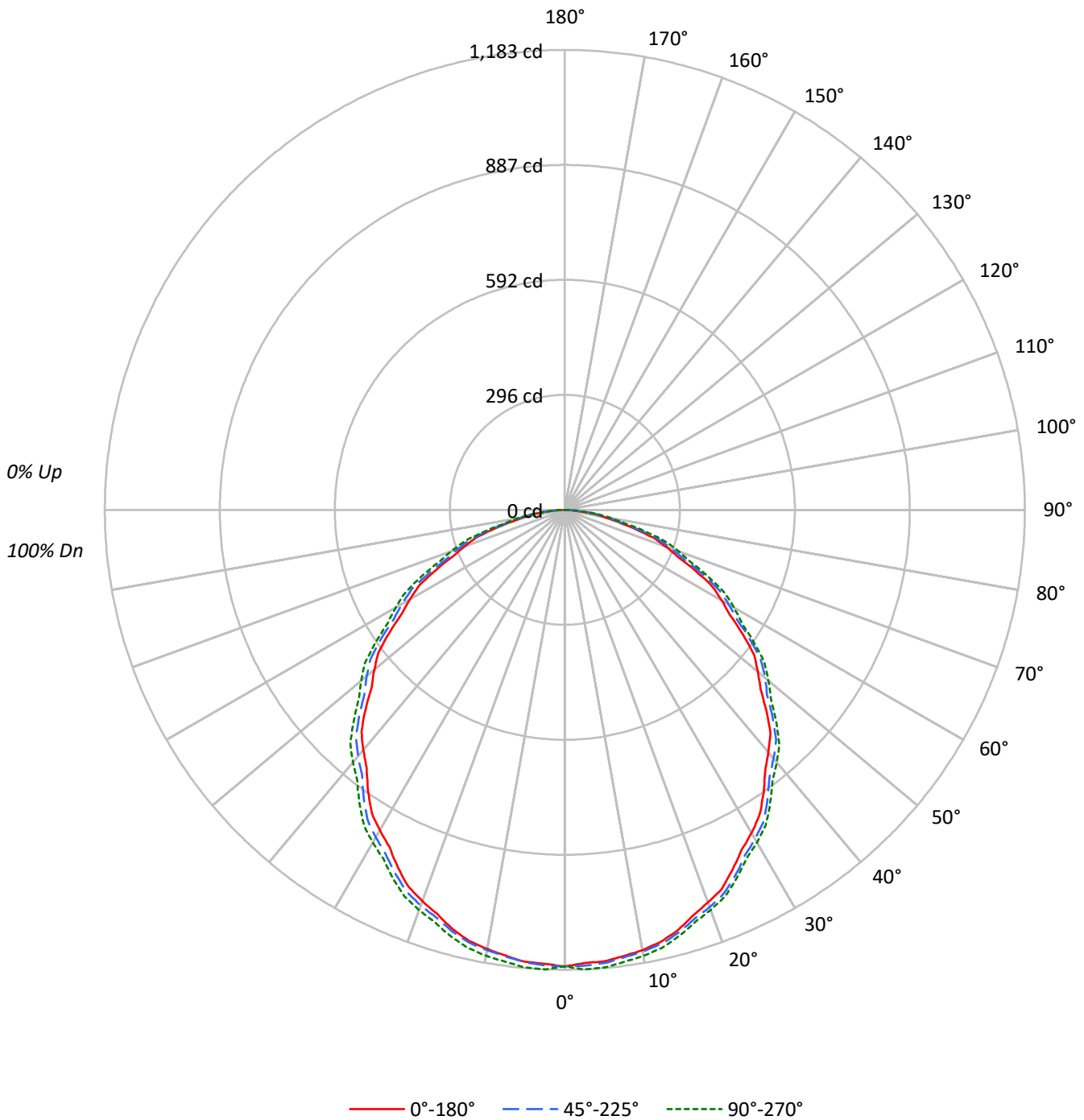
Lumens per Lamp: N/A
Luminaire Lumens: 3200.8 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 36.6
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	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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37924	37924	37924
5°	37783	38299	37835
10°	37699	38194	37620
15°	37453	37958	37319
20°	36942	37650	36804
25°	36375	37255	36175
30°	35785	36851	35486
35°	35104	36295	34762
40°	34322	35730	33985
45°	33479	35077	33077
50°	32554	34352	32117
55°	31471	33391	31021
60°	30090	32402	29683
65°	28310	31106	27943
70°	26049	29354	25747
75°	22620	26588	23119
80°	18187	22036	19228
85°	10004	15006	12968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	3.5
10°-20°	316.5	9.9
20°-30°	474.4	14.8
30°-40°	564.1	17.6
40°-50°	577.5	18.0
50°-60°	514.8	16.1
60°-70°	383.7	12.0
70°-80°	209.7	6.6
80°-90°	49.2	1.5
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°	901.9	28.2
0°-40°	1466.0	45.8
0°-60°	2558.2	79.9
0°-90°	3200.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3200.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1174	1174	1174	1174	1174	
5°	1166	1170	1182	1168	1167	111
15°	1120	1127	1135	1122	1116	315
25°	1021	1038	1046	1032	1015	470
35°	890	909	921	902	882	556
45°	733	755	768	747	724	565
55°	559	581	593	576	551	499
65°	370	389	407	386	366	367
75°	181	196	213	197	185	194
85°	27	37	40	41	35	40
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°	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4	1174.4
2.5°	1166.7	1172.3	1173.7	1172.7	1183.3	1173.3	1173.1	1172.4	1168.6
5°	1165.6	1167.2	1170.4	1168.3	1181.5	1168.3	1168.0	1166.4	1167.2
7.5°	1158.0	1159.5	1161.3	1159.2	1172.4	1158.9	1158.8	1156.1	1156.9
10°	1149.7	1151.3	1153.7	1151.6	1164.8	1150.0	1150.5	1146.5	1147.3
12.5°	1138.3	1139.8	1144.1	1141.4	1154.0	1139.9	1140.3	1135.7	1135.9
15°	1120.3	1122.6	1126.6	1122.2	1135.4	1121.4	1121.9	1117.1	1116.3
17.5°	1094.7	1099.4	1104.2	1100.4	1112.2	1098.8	1099.5	1092.1	1090.1
20°	1075.0	1079.6	1087.7	1083.2	1095.6	1081.6	1082.9	1071.8	1071.0
22.5°	1055.3	1058.7	1068.6	1064.1	1076.6	1062.6	1063.2	1050.2	1050.0
25°	1020.9	1025.6	1037.6	1033.9	1045.6	1031.6	1032.0	1017.7	1015.3
27.5°	985.8	990.6	1002.8	999.2	1011.2	996.9	997.8	981.8	977.2
30°	959.7	965.1	978.0	975.1	988.3	972.8	972.4	956.4	951.7
32.5°	931.7	938.4	951.3	949.6	961.6	946.7	945.1	929.0	924.4
35°	890.5	897.5	908.8	909.8	920.7	906.7	902.4	887.2	881.8
37.5°	846.0	852.5	864.7	866.9	877.5	862.9	856.8	843.0	836.8
40°	814.2	822.0	834.8	838.2	847.6	833.6	826.9	812.4	806.2
42.5°	783.0	790.8	804.3	809.6	816.4	803.0	795.1	781.2	773.8
45°	733.1	740.9	755.3	762.6	768.1	755.6	746.6	732.1	724.3
47.5°	682.4	690.9	705.6	714.6	718.1	706.8	698.4	682.3	673.6
50°	648.0	656.6	671.9	681.4	683.8	673.7	664.7	648.6	639.3
52.5°	613.0	620.3	635.6	646.4	647.5	639.3	629.7	613.6	604.9
55°	559.0	566.7	581.2	593.9	593.1	587.7	575.6	559.6	551.0
57.5°	503.5	509.7	524.8	538.3	538.6	532.4	520.8	504.9	496.5
60°	465.9	472.1	486.6	500.2	501.7	495.5	482.6	467.3	459.6
62.5°	428.4	434.0	447.8	462.6	464.2	458.0	444.5	429.8	422.0
65°	370.5	375.2	388.8	404.0	407.1	400.1	385.6	372.7	365.7
67.5°	313.4	317.9	330.6	345.6	349.7	341.8	328.7	316.5	309.6
70°	275.9	279.8	291.8	306.2	310.9	302.3	291.8	278.9	272.7
72.5°	237.7	241.6	253.6	267.4	271.4	263.5	253.6	242.1	239.6
75°	181.3	185.2	195.6	210.0	213.1	206.1	197.2	186.8	185.3
77.5°	130.9	133.4	142.8	152.7	154.7	150.5	145.2	135.9	135.2
80°	97.8	100.9	109.7	117.7	118.5	116.1	112.1	104.1	103.4
82.5°	68.5	71.0	78.6	85.8	84.8	84.9	82.2	74.9	74.7
85°	27.0	29.4	37.4	43.7	40.5	42.9	41.3	35.8	35.0
87.5°	2.5	3.2	6.4	12.7	11.4	13.3	11.4	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)