

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: P511823

Luminaire Tested: **SQW-F-0U-075D-840-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511823
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-7)
Test Lab: INNOVATION CENTER
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQW-F-0U-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

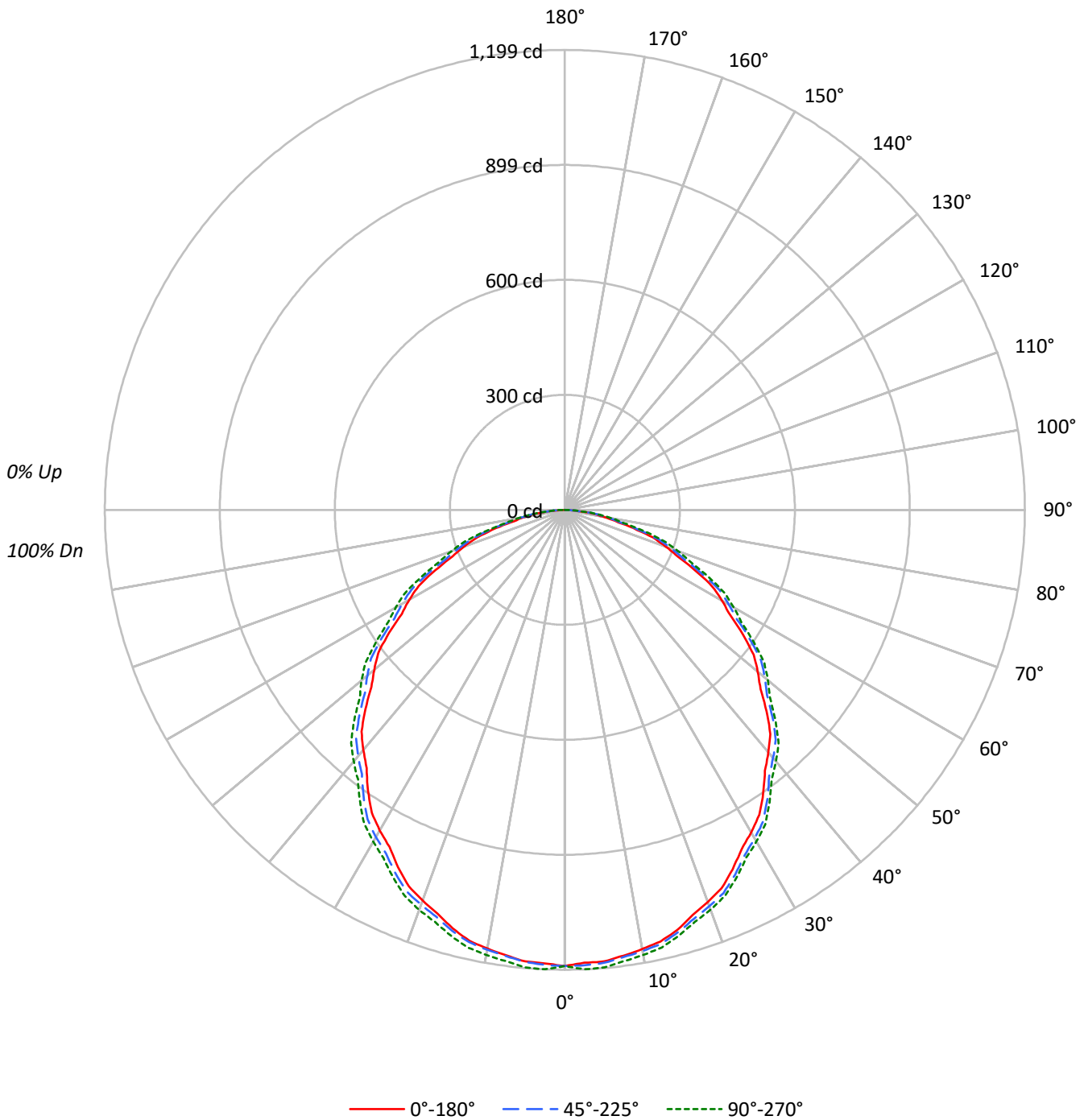
Lumens per Lamp: N/A
Luminaire Lumens: 3240.5 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 27.3
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°	38405	38405	38405
5°	38312	38795	38312
10°	38125	38650	38089
15°	37907	38409	37767
20°	37395	38127	37247
25°	36838	37707	36646
30°	36206	37239	35971
35°	35550	36685	35258
40°	34786	36084	34427
45°	33940	35447	33552
50°	32951	34714	32574
55°	31888	33808	31471
60°	30529	32802	30186
65°	28722	31488	28478
70°	26540	29656	26342
75°	23119	26563	23119
80°	18615	22185	19210
85°	10634	15006	12634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	3.5
10°-20°	320.4	9.9
20°-30°	480.1	14.8
30°-40°	570.8	17.6
40°-50°	584.3	18.0
50°-60°	521.0	16.1
60°-70°	389.3	12.0
70°-80°	212.2	6.5
80°-90°	49.9	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°	912.9	28.2
0°-40°	1483.7	45.8
0°-60°	2589.0	79.9
0°-90°	3240.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3240.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1189	1189	1189	1189	1189	
5°	1182	1185	1197	1183	1182	112
15°	1134	1140	1149	1136	1130	319
25°	1034	1050	1058	1046	1028	476
35°	902	920	931	915	894	563
45°	743	766	776	757	735	573
55°	566	589	600	582	559	506
65°	376	395	412	393	373	373
75°	185	199	213	200	185	198
85°	29	37	40	42	34	41
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°	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3	1189.3
2.5°	1181.6	1187.5	1188.5	1187.0	1198.7	1187.9	1187.6	1187.5	1183.3
5°	1181.9	1181.9	1185.1	1183.2	1196.8	1183.2	1182.9	1180.8	1181.9
7.5°	1172.1	1173.3	1175.7	1173.6	1186.3	1172.6	1173.3	1170.2	1171.9
10°	1162.7	1164.8	1168.0	1165.1	1178.7	1164.1	1164.8	1161.6	1161.6
12.5°	1152.5	1154.6	1158.6	1154.9	1168.4	1154.7	1154.6	1150.6	1150.6
15°	1133.9	1136.0	1140.3	1136.4	1148.9	1134.3	1136.1	1130.7	1129.7
17.5°	1107.8	1112.1	1117.8	1113.8	1126.5	1111.7	1112.7	1105.4	1103.5
20°	1088.2	1093.4	1099.9	1095.9	1109.5	1093.8	1095.6	1084.9	1083.9
22.5°	1067.7	1072.1	1081.1	1077.2	1089.9	1075.1	1076.9	1062.8	1062.6
25°	1033.9	1038.0	1049.8	1046.9	1058.3	1043.8	1045.6	1029.6	1028.5
27.5°	997.4	1002.9	1014.7	1012.0	1023.4	1007.8	1009.6	992.3	990.2
30°	971.0	977.3	989.1	987.3	998.7	983.1	984.9	966.7	964.7
32.5°	942.9	950.8	962.7	961.7	972.3	957.5	956.8	939.5	936.5
35°	901.8	908.1	919.9	921.2	930.6	917.0	914.6	897.5	894.4
37.5°	856.7	863.1	875.0	877.7	885.9	872.5	868.6	851.5	848.2
40°	825.2	832.5	844.3	848.8	856.0	843.6	837.9	820.8	816.7
42.5°	792.8	800.9	813.7	818.1	824.5	812.0	805.6	789.3	784.3
45°	743.2	751.5	765.5	771.0	776.2	764.7	757.0	739.9	734.7
47.5°	691.7	700.0	714.4	721.1	725.1	715.7	706.8	689.6	683.3
50°	655.9	664.2	680.4	687.9	691.0	681.6	671.8	654.7	648.4
52.5°	621.0	628.5	644.6	652.9	655.2	647.5	636.9	620.6	613.5
55°	566.4	573.7	588.8	598.4	600.5	594.3	582.4	565.2	559.0
57.5°	510.2	517.5	532.4	543.1	545.4	539.1	526.2	511.1	504.0
60°	472.7	480.0	494.0	504.8	507.9	501.6	488.7	473.7	467.4
62.5°	434.4	440.0	454.9	465.6	470.4	465.0	451.2	434.5	429.1
65°	375.9	382.1	395.0	407.9	412.1	407.9	392.9	377.9	372.7
67.5°	319.4	323.6	335.4	348.1	353.3	348.7	335.2	319.8	316.4
70°	281.1	285.3	297.1	308.9	314.1	307.9	296.0	283.1	279.0
72.5°	241.1	245.2	256.2	268.0	272.4	266.1	256.0	244.8	239.8
75°	185.3	189.4	199.1	208.8	212.9	208.8	200.2	190.5	185.3
77.5°	133.3	137.3	145.7	154.0	155.9	153.2	147.1	138.8	134.8
80°	100.1	103.2	110.7	118.2	119.3	118.2	113.9	106.4	103.3
82.5°	70.3	72.6	80.1	85.8	85.2	87.5	83.3	76.6	74.3
85°	28.7	30.8	37.3	43.6	40.5	45.7	41.5	37.2	34.1
87.5°	3.4	3.4	6.8	11.9	11.1	14.4	11.1	8.5	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)