

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: P511822

Luminaire Tested: **SQW-F-0U-075D-835-1D-UNV-STD-W-4**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511822
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-835-1D-UNV-STD-W-4
Description: CORELITE SQW WALL MOUNTED LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

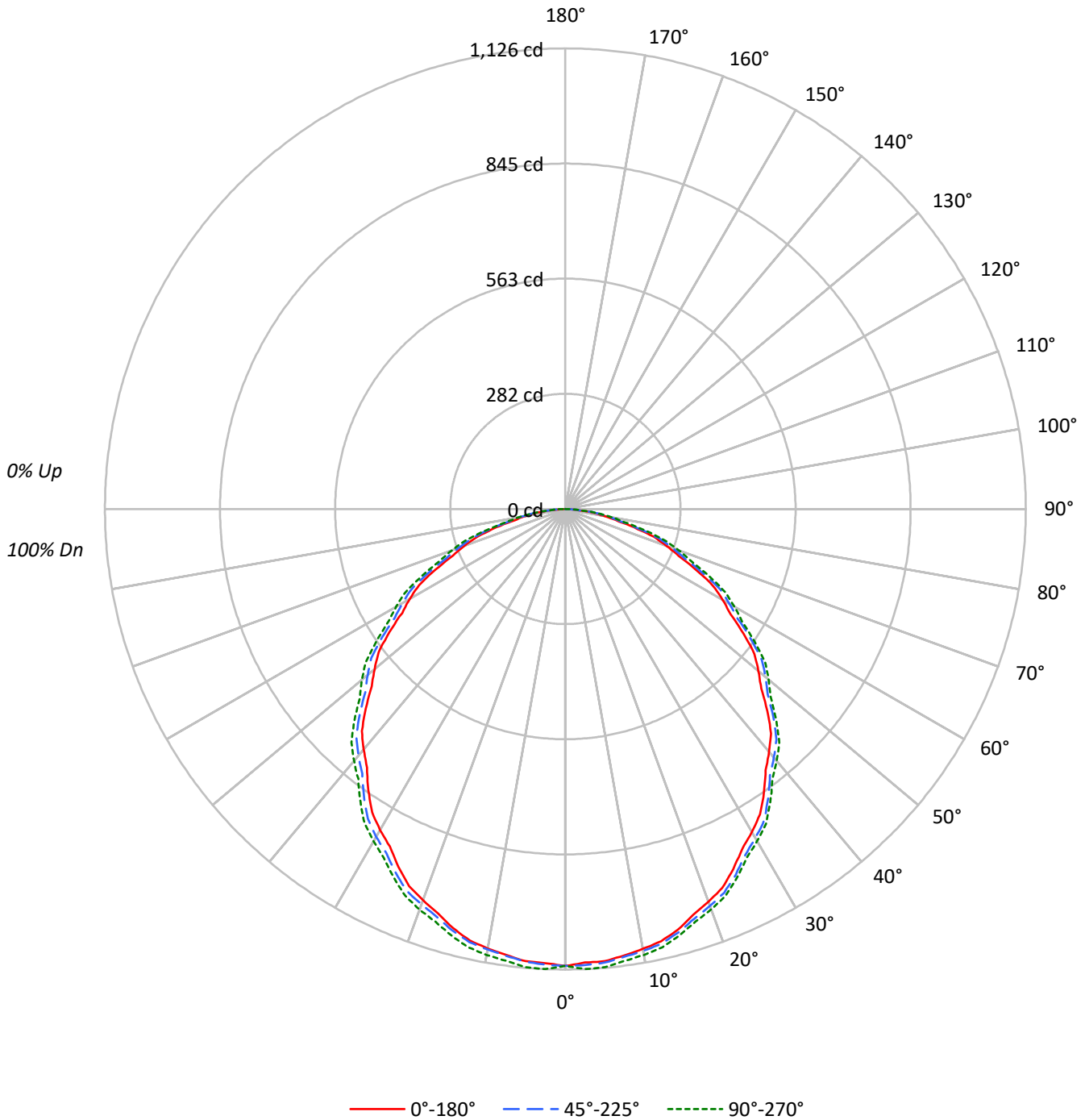
Lumens per Lamp: N/A
Luminaire Lumens: 3043.4 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.35
Luminous Opening: Rectangular (W 4' x L: 0.08' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	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	3.5
10°-20°	300.9	9.9
20°-30°	450.9	14.8
30°-40°	536.1	17.6
40°-50°	548.8	18.0
50°-60°	489.3	16.1
60°-70°	365.6	12.0
70°-80°	199.3	6.5
80°-90°	46.9	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°	857.4	28.2
0°-40°	1393.5	45.8
0°-60°	2431.6	79.9
0°-90°	3043.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.4	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°	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°	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°	3.2	3.2	6.4	11.2	10.4	13.5	10.4	8.0	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)