

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: METALUX

Report Number: P183865

Luminaire Tested: **22SR-LD2-29-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34359)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22SR-LD2-29-C-UNV-L850-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 5000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3272.3 lumens
Efficiency: N/A
Efficacy: 139.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.51 / 1.48
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

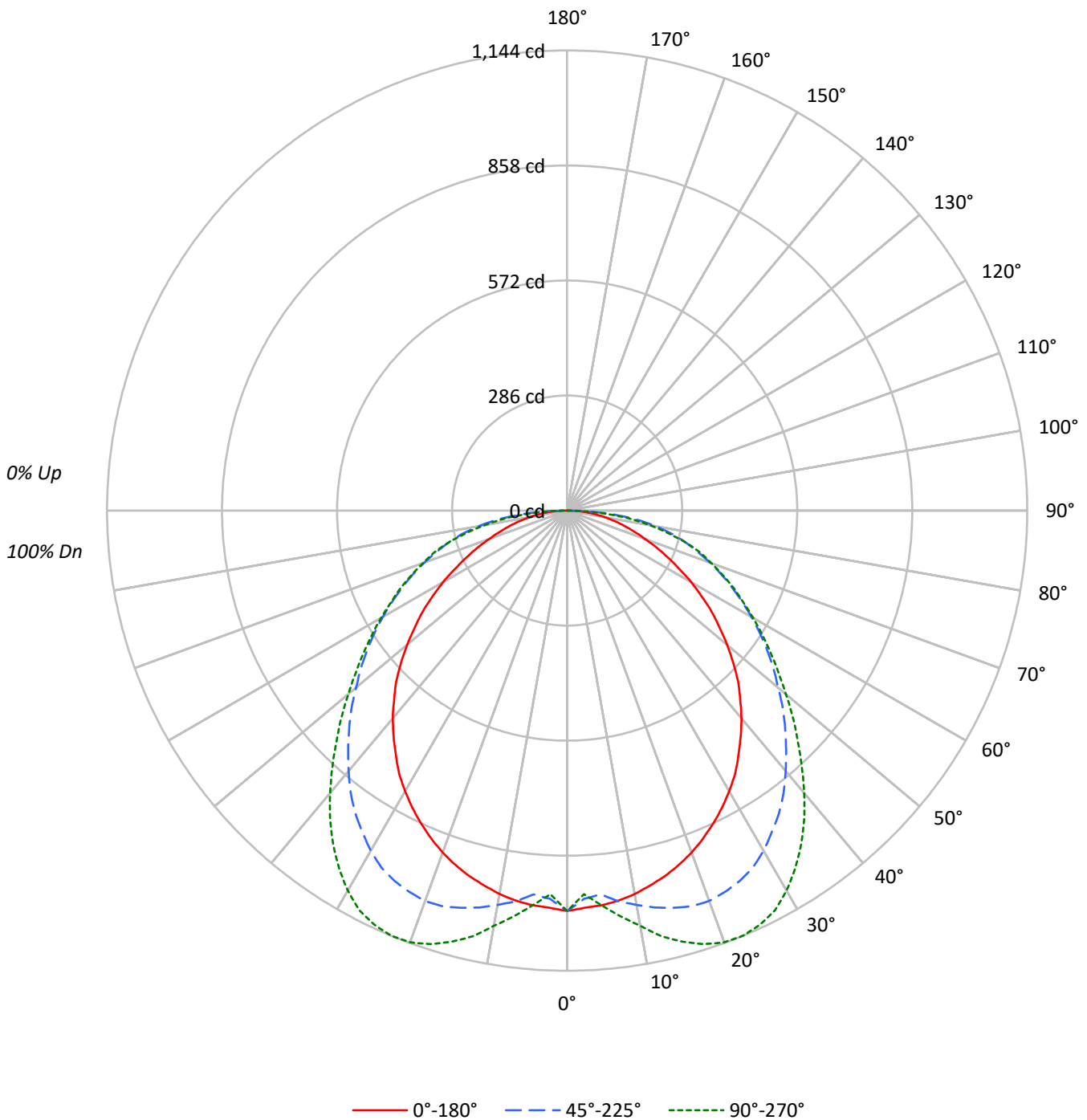
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	98	94	105	100	96	92	96	92	89	92	89	87	88	86	84	82
2	98	89	82	75	95	87	80	75	83	78	73	80	75	71	77	73	69	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2678	2678	2678
5°	2661	2587	2661
10°	2645	2720	2864
15°	2620	2849	3092
20°	2591	2958	3271
25°	2550	3016	3371
30°	2504	3034	3390
35°	2439	3017	3331
40°	2369	2968	3220
45°	2287	2917	3086
50°	2173	2866	2973
55°	2058	2852	2899
60°	1920	2848	2876
65°	1761	2881	2913
70°	1626	2969	2995
75°	1526	3160	3160
80°	1481	3465	3228
85°	1476	3690	3162



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	2.9
10°-20°	287.3	8.8
20°-30°	459.1	14.0
30°-40°	555.2	17.0
40°-50°	563.2	17.2
50°-60°	507.2	15.5
60°-70°	410.7	12.5
70°-80°	286.6	8.8
80°-90°	109.5	3.3
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°	839.9	25.7
0°-40°	1395.1	42.6
0°-60°	2465.5	75.3
0°-90°	3272.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	995	995	995	995	995	
5°	985	954	958	982	985	93
15°	941	939	1023	1089	1110	265
25°	859	888	1016	1108	1135	396
35°	743	780	918	995	1014	464
45°	601	650	766	806	811	462
55°	439	517	608	618	618	391
65°	277	384	452	449	458	275
75°	147	256	304	300	304	157
85°	48	106	120	108	102	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3
2.5°	988.4	990.2	988.4	986.7	985.0	983.3	981.6	978.2	973.1	969.7	966.3
5°	985.0	985.0	978.2	968.0	959.4	954.3	949.2	945.8	947.5	952.6	957.7
7.5°	978.2	974.8	959.4	945.8	938.9	938.9	942.4	954.3	966.3	974.8	979.9
10°	968.0	961.1	938.9	928.7	937.2	944.1	952.6	964.5	971.4	981.6	995.3
12.5°	954.3	944.1	918.5	921.9	938.9	947.5	952.6	962.8	979.9	997.0	1010.6
15°	940.6	923.6	901.4	916.7	933.8	938.9	945.8	966.3	985.0	1002.1	1022.6
17.5°	923.6	901.4	886.0	904.8	920.2	930.4	942.4	962.8	985.0	1008.9	1031.1
20°	904.8	879.2	870.7	891.1	909.9	921.9	932.1	957.7	983.3	1007.2	1032.8
22.5°	882.6	851.9	851.9	870.7	894.6	904.8	918.5	947.5	973.1	1000.4	1026.0
25°	858.7	826.3	829.7	850.2	874.1	887.7	901.4	930.4	961.1	986.7	1015.8
27.5°	833.1	799.0	805.8	826.3	848.5	865.5	880.9	911.6	940.6	971.4	1000.4
30°	805.8	771.6	776.8	797.2	822.9	839.9	855.3	886.0	916.7	949.2	976.5
32.5°	776.8	742.6	747.7	768.2	795.5	810.9	826.3	857.0	891.1	921.9	947.5
35°	742.6	711.9	717.0	737.5	764.8	780.2	795.5	829.7	860.4	889.4	918.5
37.5°	708.5	679.5	682.9	705.1	734.1	749.4	764.8	797.2	828.0	857.0	884.3
40°	674.3	647.0	652.1	672.6	701.6	715.3	730.7	764.8	795.5	822.9	845.0
42.5°	636.8	614.6	619.7	640.2	667.5	682.9	699.9	730.7	759.7	785.3	805.8
45°	600.9	582.1	585.6	606.0	633.4	650.4	665.8	698.2	725.5	746.0	766.5
47.5°	560.0	544.6	553.1	573.6	600.9	616.3	633.4	664.1	688.0	710.2	727.3
50°	519.0	507.0	517.3	539.5	566.8	585.6	600.9	628.2	652.1	672.6	684.6
52.5°	478.0	472.9	483.1	505.3	534.3	549.7	565.1	594.1	618.0	635.1	647.0
55°	438.7	435.3	449.0	472.9	503.6	517.3	532.6	560.0	582.1	597.5	607.8
57.5°	396.1	397.8	413.1	440.4	469.5	484.8	498.5	524.1	546.3	558.2	568.5
60°	356.8	358.5	379.0	406.3	437.0	452.4	466.1	490.0	508.7	520.7	529.2
62.5°	314.1	324.4	346.6	372.2	402.9	418.3	433.6	455.8	474.6	484.8	490.0
65°	276.6	288.5	314.1	341.4	372.2	384.1	399.5	421.7	437.0	447.3	452.4
67.5°	240.7	256.1	281.7	310.7	339.7	355.1	367.0	387.5	401.2	409.7	414.8
70°	206.6	225.3	252.7	280.0	307.3	320.9	332.9	353.4	365.3	373.9	377.3
72.5°	175.8	194.6	223.6	249.2	274.9	290.2	300.5	319.2	331.2	338.0	339.7
75°	146.8	167.3	192.9	218.5	244.1	256.1	268.0	283.4	295.3	302.2	303.9
77.5°	121.2	140.0	165.6	189.5	211.7	221.9	233.9	249.2	259.5	264.6	266.3
80°	95.6	114.4	136.6	158.8	179.3	186.1	196.3	210.0	221.9	223.6	223.6
82.5°	71.7	88.8	107.6	126.3	143.4	150.2	157.1	169.0	175.8	177.5	175.8
85°	47.8	59.8	73.4	87.1	100.7	105.8	112.7	121.2	121.2	124.6	119.5
87.5°	23.9	29.0	37.6	42.7	51.2	54.6	58.0	59.8	59.8	59.8	58.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°
0°	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3	995.3
2.5°	962.8	961.1	957.7	957.7	957.7	956.0	956.0	956.0	954.3	954.3
5°	964.5	969.7	976.5	981.6	981.6	981.6	983.3	983.3	985.0	985.0
7.5°	985.0	990.2	997.0	1002.1	1005.5	1007.2	1012.3	1014.1	1017.5	1017.5
10°	1008.9	1017.5	1026.0	1031.1	1036.2	1039.7	1041.4	1048.2	1048.2	1048.2
12.5°	1024.3	1038.0	1049.9	1061.9	1067.0	1070.4	1075.5	1078.9	1084.0	1084.0
15°	1041.4	1056.7	1070.4	1084.0	1089.2	1094.3	1101.1	1106.2	1108.0	1109.7
17.5°	1049.9	1068.7	1084.0	1097.7	1102.8	1108.0	1118.2	1125.0	1128.4	1130.1
20°	1053.3	1073.8	1092.6	1108.0	1114.8	1119.9	1130.1	1137.0	1142.1	1142.1
22.5°	1051.6	1072.1	1092.6	1109.7	1116.5	1121.6	1131.9	1138.7	1142.1	1143.8
25°	1043.1	1063.6	1084.0	1101.1	1108.0	1113.1	1123.3	1130.1	1135.3	1135.3
27.5°	1026.0	1048.2	1067.0	1084.0	1089.2	1097.7	1106.2	1113.1	1118.2	1119.9
30°	1002.1	1024.3	1044.8	1058.4	1065.3	1070.4	1078.9	1087.5	1089.2	1090.9
32.5°	973.1	995.3	1012.3	1026.0	1032.8	1038.0	1046.5	1053.3	1056.7	1055.0
35°	940.6	959.4	976.5	990.2	995.3	998.7	1007.2	1010.6	1014.1	1014.1
37.5°	904.8	920.2	937.2	947.5	950.9	954.3	961.1	966.3	966.3	968.0
40°	862.1	879.2	891.1	901.4	904.8	906.5	913.3	915.0	916.7	916.7
42.5°	822.9	836.5	845.0	851.9	855.3	858.7	862.1	862.1	862.1	863.8
45°	780.2	790.4	799.0	804.1	805.8	807.5	809.2	810.9	810.9	810.9
47.5°	739.2	747.7	752.9	758.0	758.0	759.7	759.7	761.4	761.4	761.4
50°	694.8	701.6	705.1	708.5	708.5	708.5	710.2	710.2	710.2	710.2
52.5°	653.8	659.0	660.7	662.4	662.4	664.1	664.1	662.4	664.1	662.4
55°	612.9	616.3	618.0	616.3	618.0	618.0	618.0	616.3	618.0	618.0
57.5°	571.9	573.6	573.6	571.9	573.6	571.9	571.9	573.6	575.3	575.3
60°	530.9	530.9	529.2	529.2	529.2	529.2	529.2	532.6	532.6	534.3
62.5°	491.7	491.7	490.0	488.2	488.2	488.2	490.0	491.7	493.4	493.4
65°	452.4	452.4	450.7	449.0	449.0	449.0	450.7	452.4	454.1	457.5
67.5°	416.5	413.1	413.1	411.4	411.4	411.4	414.8	416.5	418.3	418.3
70°	375.6	375.6	372.2	373.9	373.9	373.9	375.6	377.3	379.0	380.7
72.5°	339.7	338.0	336.3	338.0	338.0	338.0	339.7	343.1	344.8	346.6
75°	303.9	302.2	302.2	300.5	300.5	302.2	302.2	303.9	303.9	303.9
77.5°	266.3	261.2	259.5	256.1	256.1	256.1	256.1	256.1	256.1	256.1
80°	221.9	215.1	210.0	210.0	208.3	208.3	208.3	208.3	206.6	208.3
82.5°	170.7	167.3	162.2	160.5	160.5	160.5	157.1	157.1	157.1	160.5
85°	116.1	114.4	109.3	107.6	107.6	105.8	104.1	104.1	105.8	102.4
87.5°	56.3	54.6	51.2	51.2	51.2	49.5	49.5	47.8	49.5	47.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)