

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: P183860

Luminaire Tested: **22SR-LD2-25-C-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183860  
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-LD2-25-C-UNV-L850-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

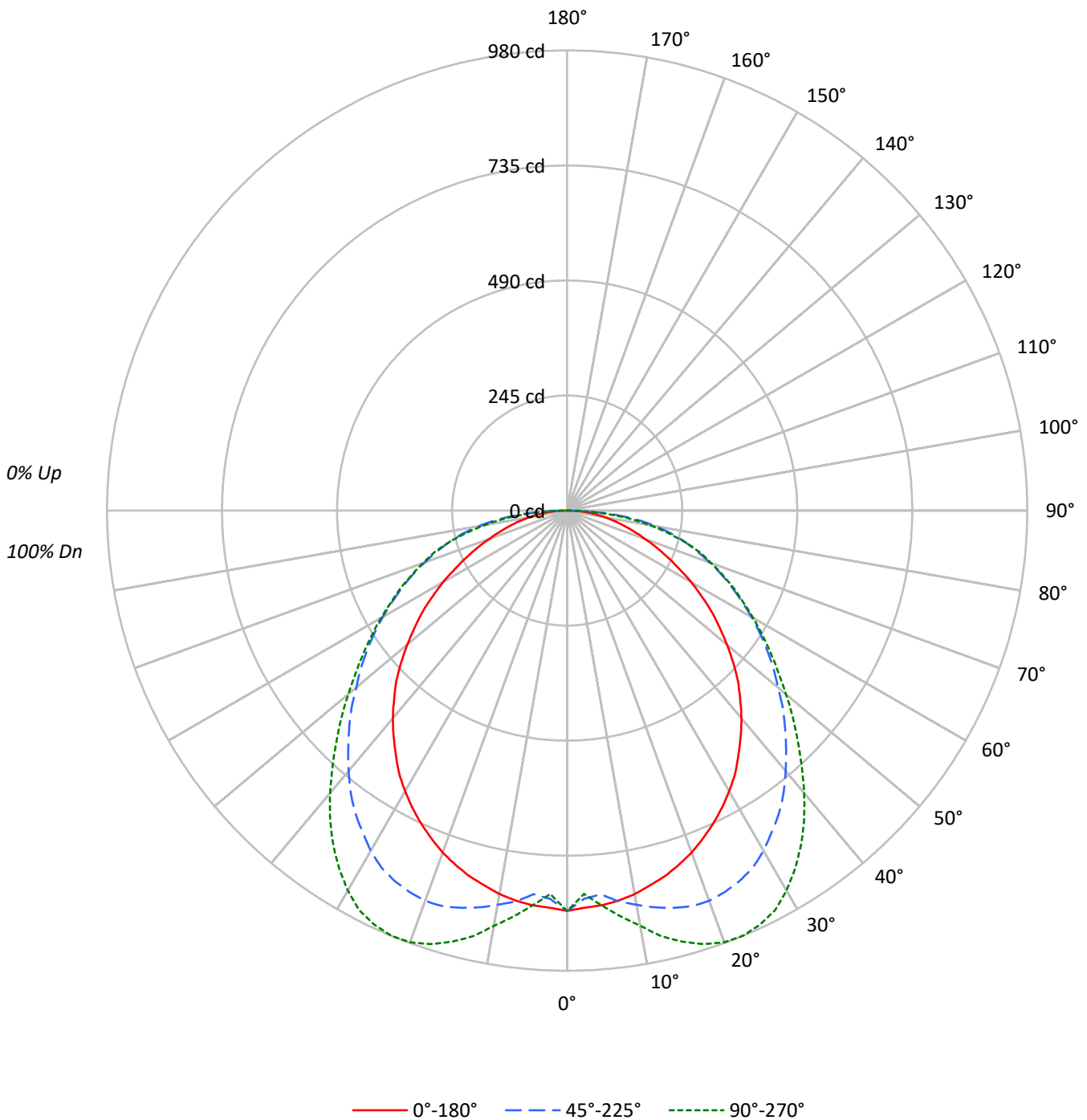
Lumens per Lamp: N/A  
Luminaire Lumens: 2802.7 lumens  
Efficiency: N/A  
Efficacy: 143.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.51 / 1.48  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	2294	2294	2294
5°	2279	2216	2279
10°	2266	2329	2453
15°	2245	2440	2648
20°	2219	2533	2801
25°	2184	2583	2887
30°	2145	2599	2903
35°	2090	2584	2853
40°	2029	2543	2758
45°	1959	2498	2643
50°	1861	2454	2547
55°	1763	2442	2483
60°	1645	2440	2463
65°	1508	2467	2495
70°	1392	2542	2566
75°	1307	2706	2706
80°	1269	2968	2765
85°	1263	3162	2708



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.1	2.9
10°-20°	246.1	8.8
20°-30°	393.2	14.0
30°-40°	475.5	17.0
40°-50°	482.4	17.2
50°-60°	434.4	15.5
60°-70°	351.7	12.5
70°-80°	245.5	8.8
80°-90°	93.8	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°	719.4	25.7
0°-40°	1194.9	42.6
0°-60°	2111.7	75.3
0°-90°	2802.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2802.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	844	817	820	841	844	80
15°	806	804	876	933	950	227
25°	736	760	870	949	972	339
35°	636	668	787	852	869	398
45°	515	557	656	690	694	396
55°	376	443	520	529	529	335
65°	237	329	388	385	392	236
75°	126	219	260	257	260	134
85°	41	91	102	92	88	45
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°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	846.6	848.1	846.6	845.2	843.7	842.2	840.8	837.8	833.5	830.5	827.6
5°	843.7	843.7	837.8	829.1	821.8	817.4	813.0	810.1	811.5	815.9	820.3
7.5°	837.8	834.9	821.8	810.1	804.2	804.2	807.1	817.4	827.6	834.9	839.3
10°	829.1	823.2	804.2	795.4	802.8	808.6	815.9	826.1	832.0	840.8	852.5
12.5°	817.4	808.6	786.7	789.6	804.2	811.5	815.9	824.7	839.3	853.9	865.6
15°	805.7	791.1	772.0	785.2	799.8	804.2	810.1	827.6	843.7	858.3	875.9
17.5°	791.1	772.0	758.9	775.0	788.1	796.9	807.1	824.7	843.7	864.2	883.2
20°	775.0	753.0	745.7	763.3	779.4	789.6	798.4	820.3	842.2	862.7	884.6
22.5°	756.0	729.6	729.6	745.7	766.2	775.0	786.7	811.5	833.5	856.9	878.8
25°	735.5	707.7	710.6	728.2	748.7	760.3	772.0	796.9	823.2	845.2	870.0
27.5°	713.6	684.3	690.2	707.7	726.7	741.3	754.5	780.8	805.7	832.0	856.9
30°	690.2	660.9	665.3	682.9	704.8	719.4	732.6	758.9	785.2	813.0	836.4
32.5°	665.3	636.1	640.4	658.0	681.4	694.5	707.7	734.0	763.3	789.6	811.5
35°	636.1	609.7	614.1	631.7	655.1	668.2	681.4	710.6	737.0	761.8	786.7
37.5°	606.8	582.0	584.9	603.9	628.7	641.9	655.1	682.9	709.2	734.0	757.4
40°	577.6	554.2	558.6	576.1	601.0	612.7	625.8	655.1	681.4	704.8	723.8
42.5°	545.4	526.4	530.8	548.3	571.7	584.9	599.5	625.8	650.7	672.6	690.2
45°	514.7	498.6	501.5	519.1	542.5	557.1	570.3	598.0	621.4	639.0	656.5
47.5°	479.6	466.4	473.8	491.3	514.7	527.9	542.5	568.8	589.3	608.3	622.9
50°	444.5	434.3	443.0	462.1	485.5	501.5	514.7	538.1	558.6	576.1	586.3
52.5°	409.4	405.0	413.8	432.8	457.7	470.8	484.0	508.8	529.3	543.9	554.2
55°	375.8	372.9	384.6	405.0	431.4	443.0	456.2	479.6	498.6	511.8	520.5
57.5°	339.2	340.7	353.9	377.2	402.1	415.3	427.0	448.9	467.9	478.1	486.9
60°	305.6	307.1	324.6	348.0	374.3	387.5	399.2	419.7	435.7	446.0	453.3
62.5°	269.0	277.8	296.8	318.8	345.1	358.2	371.4	390.4	406.5	415.3	419.7
65°	236.9	247.1	269.0	292.4	318.8	329.0	342.2	361.2	374.3	383.1	387.5
67.5°	206.2	219.3	241.3	266.1	291.0	304.1	314.4	331.9	343.6	350.9	355.3
70°	176.9	193.0	216.4	239.8	263.2	274.9	285.1	302.7	312.9	320.2	323.1
72.5°	150.6	166.7	191.5	213.5	235.4	248.6	257.3	273.4	283.7	289.5	291.0
75°	125.7	143.3	165.2	187.2	209.1	219.3	229.6	242.7	253.0	258.8	260.3
77.5°	103.8	119.9	141.8	162.3	181.3	190.1	200.3	213.5	222.3	226.6	228.1
80°	81.9	98.0	117.0	136.0	153.5	159.4	168.2	179.9	190.1	191.5	191.5
82.5°	61.4	76.0	92.1	108.2	122.8	128.7	134.5	144.8	150.6	152.1	150.6
85°	40.9	51.2	62.9	74.6	86.3	90.7	96.5	103.8	103.8	106.7	102.4
87.5°	20.5	24.9	32.2	36.6	43.9	46.8	49.7	51.2	51.2	51.2	49.7
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°	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5	852.5
2.5°	824.7	823.2	820.3	820.3	820.3	818.8	818.8	818.8	817.4	817.4
5°	826.1	830.5	836.4	840.8	840.8	840.8	842.2	842.2	843.7	843.7
7.5°	843.7	848.1	853.9	858.3	861.2	862.7	867.1	868.6	871.5	871.5
10°	864.2	871.5	878.8	883.2	887.6	890.5	891.9	897.8	897.8	897.8
12.5°	877.3	889.0	899.3	909.5	913.9	916.8	921.2	924.1	928.5	928.5
15°	891.9	905.1	916.8	928.5	932.9	937.3	943.1	947.5	949.0	950.4
17.5°	899.3	915.3	928.5	940.2	944.6	949.0	957.7	963.6	966.5	968.0
20°	902.2	919.7	935.8	949.0	954.8	959.2	968.0	973.8	978.2	978.2
22.5°	900.7	918.3	935.8	950.4	956.3	960.7	969.4	975.3	978.2	979.7
25°	893.4	911.0	928.5	943.1	949.0	953.4	962.1	968.0	972.4	972.4
27.5°	878.8	897.8	913.9	928.5	932.9	940.2	947.5	953.4	957.7	959.2
30°	858.3	877.3	894.9	906.6	912.4	916.8	924.1	931.4	932.9	934.4
32.5°	833.5	852.5	867.1	878.8	884.6	889.0	896.3	902.2	905.1	903.6
35°	805.7	821.8	836.4	848.1	852.5	855.4	862.7	865.6	868.6	868.6
37.5°	775.0	788.1	802.8	811.5	814.5	817.4	823.2	827.6	827.6	829.1
40°	738.4	753.0	763.3	772.0	775.0	776.4	782.3	783.7	785.2	785.2
42.5°	704.8	716.5	723.8	729.6	732.6	735.5	738.4	738.4	738.4	739.9
45°	668.2	677.0	684.3	688.7	690.2	691.6	693.1	694.5	694.5	694.5
47.5°	633.1	640.4	644.8	649.2	649.2	650.7	650.7	652.1	652.1	652.1
50°	595.1	601.0	603.9	606.8	606.8	606.8	608.3	608.3	608.3	608.3
52.5°	560.0	564.4	565.9	567.3	567.3	568.8	568.8	567.3	568.8	567.3
55°	524.9	527.9	529.3	527.9	529.3	529.3	529.3	527.9	529.3	529.3
57.5°	489.8	491.3	491.3	489.8	491.3	489.8	489.8	491.3	492.8	492.8
60°	454.7	454.7	453.3	453.3	453.3	453.3	453.3	456.2	456.2	457.7
62.5°	421.1	421.1	419.7	418.2	418.2	418.2	419.7	421.1	422.6	422.6
65°	387.5	387.5	386.0	384.6	384.6	384.6	386.0	387.5	388.9	391.9
67.5°	356.8	353.9	353.9	352.4	352.4	352.4	355.3	356.8	358.2	358.2
70°	321.7	321.7	318.8	320.2	320.2	320.2	321.7	323.1	324.6	326.1
72.5°	291.0	289.5	288.1	289.5	289.5	289.5	291.0	293.9	295.4	296.8
75°	260.3	258.8	258.8	257.3	257.3	258.8	258.8	260.3	260.3	260.3
77.5°	228.1	223.7	222.3	219.3	219.3	219.3	219.3	219.3	219.3	219.3
80°	190.1	184.2	179.9	179.9	178.4	178.4	178.4	178.4	176.9	178.4
82.5°	146.2	143.3	138.9	137.4	137.4	137.4	134.5	134.5	134.5	137.4
85°	99.4	98.0	93.6	92.1	92.1	90.7	89.2	89.2	90.7	87.7
87.5°	48.3	46.8	43.9	43.9	43.9	42.4	42.4	40.9	42.4	40.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)