

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: P183863

Luminaire Tested: **22SR-LD2-29-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183863  
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-L835-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2948.0 lumens  
Efficiency: N/A  
Efficacy: 126.0 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

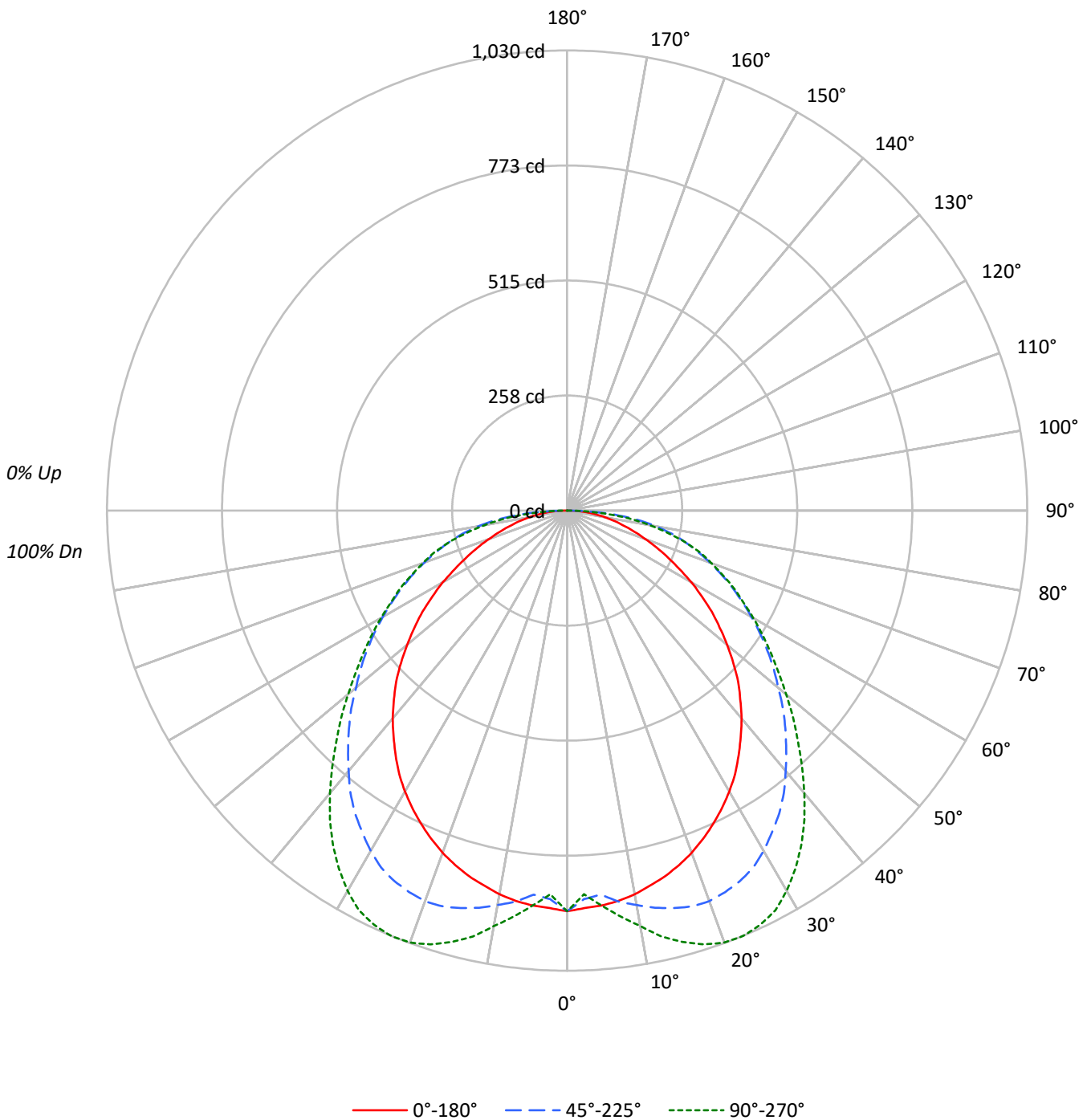
Input Watts (W): 23.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2413	2413	2413
5°	2397	2331	2397
10°	2383	2450	2580
15°	2361	2567	2785
20°	2334	2665	2946
25°	2297	2717	3037
30°	2256	2733	3054
35°	2198	2718	3001
40°	2134	2674	2901
45°	2060	2628	2780
50°	1957	2582	2678
55°	1855	2569	2612
60°	1730	2566	2591
65°	1587	2595	2625
70°	1464	2674	2699
75°	1376	2847	2847
80°	1334	3123	2907
85°	1331	3325	2850



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.3	2.9
10°-20°	258.8	8.8
20°-30°	413.6	14.0
30°-40°	500.2	17.0
40°-50°	507.4	17.2
50°-60°	457.0	15.5
60°-70°	370.0	12.5
70°-80°	258.2	8.8
80°-90°	98.7	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°	756.7	25.7
0°-40°	1256.9	42.6
0°-60°	2221.2	75.3
0°-90°	2948.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2948.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	887	860	863	884	887	84
15°	847	846	921	981	1000	239
25°	774	800	915	998	1023	356
35°	669	703	827	897	914	418
45°	541	586	691	726	730	416
55°	395	466	548	557	557	352
65°	249	346	408	404	412	248
75°	132	231	274	271	274	141
85°	43	95	108	97	92	47
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°	896.6	896.6	896.6	896.6	896.6	896.6	896.6	896.6	896.6	896.6	896.6
2.5°	890.5	892.0	890.5	889.0	887.4	885.9	884.3	881.3	876.7	873.6	870.5
5°	887.4	887.4	881.3	872.0	864.3	859.7	855.1	852.0	853.6	858.2	862.8
7.5°	881.3	878.2	864.3	852.0	845.9	845.9	849.0	859.7	870.5	878.2	882.8
10°	872.0	865.9	845.9	836.7	844.4	850.5	858.2	869.0	875.1	884.3	896.6
12.5°	859.7	850.5	827.4	830.5	845.9	853.6	858.2	867.4	882.8	898.2	910.5
15°	847.4	832.1	812.1	825.9	841.3	845.9	852.0	870.5	887.4	902.8	921.3
17.5°	832.1	812.1	798.2	815.1	829.0	838.2	849.0	867.4	887.4	909.0	928.9
20°	815.1	792.1	784.4	802.8	819.7	830.5	839.7	862.8	885.9	907.4	930.5
22.5°	795.1	767.5	767.5	784.4	805.9	815.1	827.4	853.6	876.7	901.3	924.3
25°	773.6	744.4	747.5	765.9	787.4	799.8	812.1	838.2	865.9	889.0	915.1
27.5°	750.5	719.8	725.9	744.4	764.4	779.8	793.6	821.3	847.4	875.1	901.3
30°	725.9	695.2	699.8	718.2	741.3	756.7	770.5	798.2	825.9	855.1	879.7
32.5°	699.8	669.0	673.6	692.1	716.7	730.5	744.4	772.1	802.8	830.5	853.6
35°	669.0	641.3	646.0	664.4	689.0	702.9	716.7	747.5	775.1	801.3	827.4
37.5°	638.3	612.1	615.2	635.2	661.3	675.2	689.0	718.2	745.9	772.1	796.7
40°	607.5	582.9	587.5	606.0	632.1	644.4	658.3	689.0	716.7	741.3	761.3
42.5°	573.7	553.7	558.3	576.7	601.4	615.2	630.6	658.3	684.4	707.5	725.9
45°	541.4	524.5	527.5	546.0	570.6	586.0	599.8	629.0	653.6	672.1	690.6
47.5°	504.5	490.6	498.3	516.8	541.4	555.2	570.6	598.3	619.8	639.8	655.2
50°	467.5	456.8	466.0	486.0	510.6	527.5	541.4	566.0	587.5	606.0	616.7
52.5°	430.6	426.0	435.3	455.2	481.4	495.2	509.1	535.2	556.8	572.1	582.9
55°	395.3	392.2	404.5	426.0	453.7	466.0	479.9	504.5	524.5	538.3	547.5
57.5°	356.8	358.4	372.2	396.8	422.9	436.8	449.1	472.2	492.2	502.9	512.1
60°	321.4	323.0	341.4	366.0	393.7	407.6	419.9	441.4	458.3	469.1	476.8
62.5°	283.0	292.2	312.2	335.3	363.0	376.8	390.6	410.6	427.6	436.8	441.4
65°	249.2	259.9	283.0	307.6	335.3	346.0	359.9	379.9	393.7	403.0	407.6
67.5°	216.9	230.7	253.8	279.9	306.1	319.9	330.7	349.1	361.4	369.1	373.7
70°	186.1	203.0	227.6	252.2	276.8	289.1	299.9	318.4	329.1	336.8	339.9
72.5°	158.4	175.3	201.5	224.5	247.6	261.5	270.7	287.6	298.4	304.5	306.1
75°	132.3	150.7	173.8	196.9	219.9	230.7	241.5	255.3	266.1	272.2	273.8
77.5°	109.2	126.1	149.2	170.7	190.7	199.9	210.7	224.5	233.8	238.4	239.9
80°	86.1	103.0	123.0	143.0	161.5	167.6	176.9	189.2	199.9	201.5	201.5
82.5°	64.6	80.0	96.9	113.8	129.2	135.3	141.5	152.3	158.4	160.0	158.4
85°	43.1	53.8	66.1	78.4	90.7	95.4	101.5	109.2	109.2	112.3	107.7
87.5°	21.5	26.1	33.8	38.4	46.1	49.2	52.3	53.8	53.8	53.8	52.3
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°	896.6	896.6	896.6	896.6	896.6	896.6	896.6	896.6	896.6	896.6
2.5°	867.4	865.9	862.8	862.8	862.8	861.3	861.3	861.3	859.7	859.7
5°	869.0	873.6	879.7	884.3	884.3	884.3	885.9	885.9	887.4	887.4
7.5°	887.4	892.0	898.2	902.8	905.9	907.4	912.0	913.6	916.6	916.6
10°	909.0	916.6	924.3	928.9	933.6	936.6	938.2	944.3	944.3	944.3
12.5°	922.8	935.1	945.9	956.6	961.2	964.3	968.9	972.0	976.6	976.6
15°	938.2	952.0	964.3	976.6	981.2	985.8	992.0	996.6	998.2	999.7
17.5°	945.9	962.8	976.6	988.9	993.5	998.2	1007.4	1013.5	1016.6	1018.1
20°	948.9	967.4	984.3	998.2	1004.3	1008.9	1018.1	1024.3	1028.9	1028.9
22.5°	947.4	965.9	984.3	999.7	1005.8	1010.5	1019.7	1025.8	1028.9	1030.5
25°	939.7	958.2	976.6	992.0	998.2	1002.8	1012.0	1018.1	1022.8	1022.8
27.5°	924.3	944.3	961.2	976.6	981.2	988.9	996.6	1002.8	1007.4	1008.9
30°	902.8	922.8	941.2	953.6	959.7	964.3	972.0	979.7	981.2	982.8
32.5°	876.7	896.6	912.0	924.3	930.5	935.1	942.8	948.9	952.0	950.5
35°	847.4	864.3	879.7	892.0	896.6	899.7	907.4	910.5	913.6	913.6
37.5°	815.1	829.0	844.4	853.6	856.7	859.7	865.9	870.5	870.5	872.0
40°	776.7	792.1	802.8	812.1	815.1	816.7	822.8	824.4	825.9	825.9
42.5°	741.3	753.6	761.3	767.5	770.5	773.6	776.7	776.7	776.7	778.2
45°	702.9	712.1	719.8	724.4	725.9	727.5	729.0	730.5	730.5	730.5
47.5°	665.9	673.6	678.3	682.9	682.9	684.4	684.4	685.9	685.9	685.9
50°	626.0	632.1	635.2	638.3	638.3	638.3	639.8	639.8	639.8	639.8
52.5°	589.0	593.7	595.2	596.7	596.7	598.3	598.3	596.7	598.3	596.7
55°	552.1	555.2	556.8	555.2	556.8	556.8	556.8	555.2	556.8	556.8
57.5°	515.2	516.8	516.8	515.2	516.8	515.2	515.2	516.8	518.3	518.3
60°	478.3	478.3	476.8	476.8	476.8	476.8	476.8	479.9	479.9	481.4
62.5°	442.9	442.9	441.4	439.9	439.9	439.9	441.4	442.9	444.5	444.5
65°	407.6	407.6	406.0	404.5	404.5	404.5	406.0	407.6	409.1	412.2
67.5°	375.3	372.2	372.2	370.7	370.7	370.7	373.7	375.3	376.8	376.8
70°	338.4	338.4	335.3	336.8	336.8	336.8	338.4	339.9	341.4	343.0
72.5°	306.1	304.5	303.0	304.5	304.5	304.5	306.1	309.1	310.7	312.2
75°	273.8	272.2	272.2	270.7	270.7	272.2	272.2	273.8	273.8	273.8
77.5°	239.9	235.3	233.8	230.7	230.7	230.7	230.7	230.7	230.7	230.7
80°	199.9	193.8	189.2	189.2	187.6	187.6	187.6	187.6	186.1	187.6
82.5°	153.8	150.7	146.1	144.6	144.6	144.6	141.5	141.5	141.5	144.6
85°	104.6	103.0	98.4	96.9	96.9	95.4	93.8	93.8	95.4	92.3
87.5°	50.8	49.2	46.1	46.1	46.1	44.6	44.6	43.1	44.6	43.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)