

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: P178869

Luminaire Tested: **22SR-LD2-29-C-UNV-EL7W-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P178869  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34290)  
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-EL7W-L850-CD1-U  
Description: METALUX SKYRIDGE 2X2 TROFFER  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1055.0 lumens  
Efficiency: N/A  
Efficacy: 170.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.47 / 1.44  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

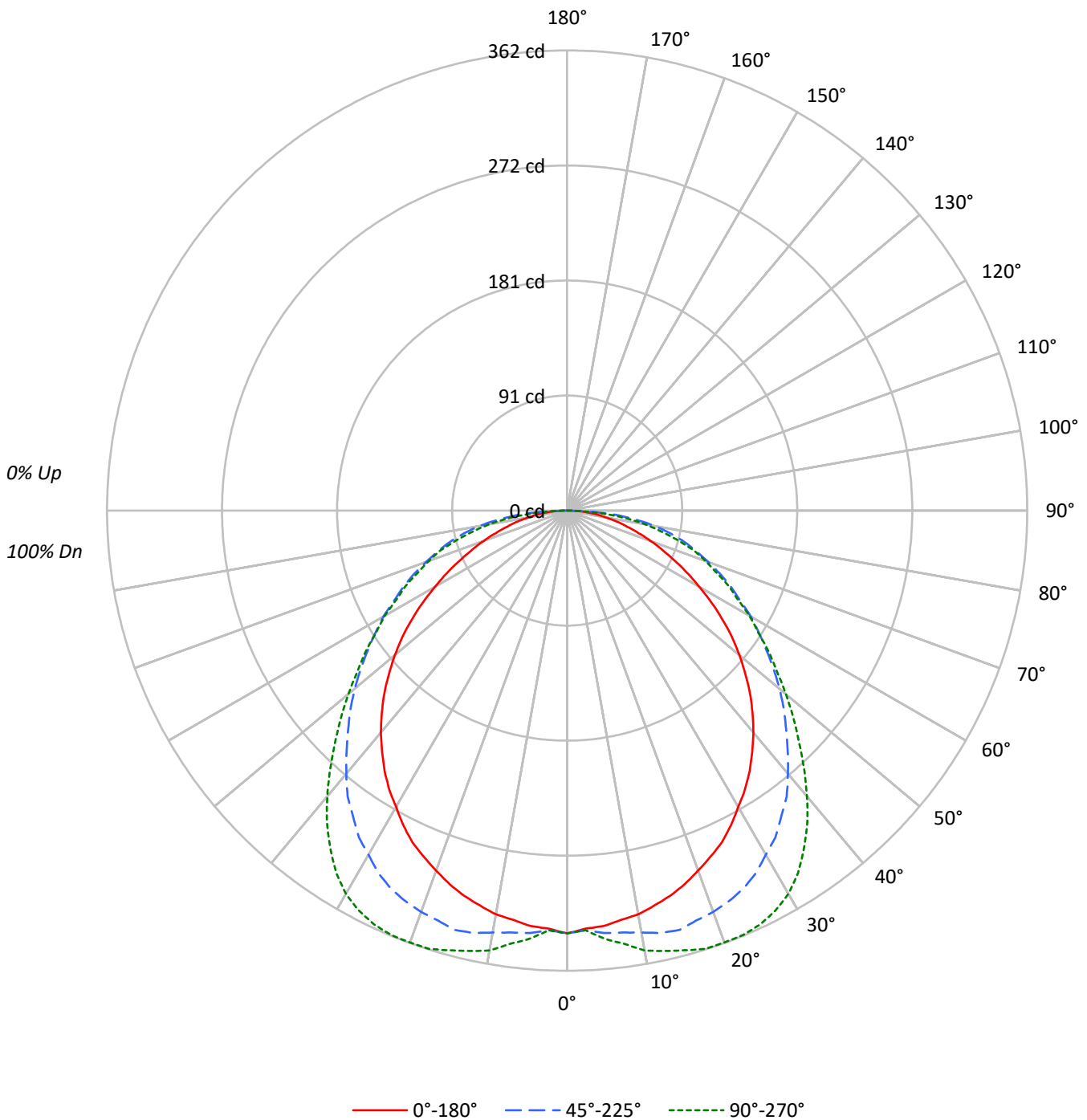
Input Watts (W): 6.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	72	77	73	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	50	48
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42
6	69	55	46	40	67	54	46	40	53	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	35	46	39	34	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	42	36	31	41	35	30	29
9	56	42	34	28	54	41	33	28	40	33	28	39	32	28	38	32	27	26
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	895	895	895
5°	886	901	913
10°	881	921	960
15°	874	951	998
20°	863	962	1035
25°	855	974	1067
30°	836	971	1082
35°	822	964	1067
40°	801	950	1031
45°	774	927	982
50°	740	913	940
55°	699	897	908
60°	646	898	892
65°	595	906	892
70°	552	928	910
75°	508	995	937
80°	482	1086	965
85°	482	1167	929



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.9	3.0
10°-20°	95.4	9.0
20°-30°	149.5	14.2
30°-40°	180.7	17.1
40°-50°	182.2	17.3
50°-60°	162.3	15.4
60°-70°	129.8	12.3
70°-80°	89.6	8.5
80°-90°	33.7	3.2
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°	276.8	26.2
0°-40°	457.4	43.4
0°-60°	801.9	76.0
0°-90°	1055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1055.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	333	333	333	333	333	
5°	328	328	334	339	338	31
15°	314	318	342	354	358	88
25°	288	299	328	353	359	132
35°	250	260	294	317	325	156
45°	204	215	244	257	258	157
55°	149	168	191	195	194	133
65°	93	124	142	140	140	93
75°	49	81	96	92	90	52
85°	16	33	38	32	30	17
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°	332.6	332.6	332.6	332.6	332.6	332.6	332.6	332.6	332.6	332.6	332.6
2.5°	329.2	330.4	330.4	330.4	330.4	330.4	330.4	330.4	330.4	330.4	330.4
5°	328.1	329.2	328.1	328.1	328.1	328.1	328.1	328.1	330.4	331.4	333.6
7.5°	324.8	325.9	324.8	324.8	325.9	325.9	328.1	331.4	333.6	334.8	334.8
10°	322.5	323.7	321.5	321.5	325.9	328.1	329.2	330.4	329.2	332.6	337.0
12.5°	318.1	318.1	315.9	320.3	324.8	324.8	323.7	325.9	331.4	337.0	340.3
15°	313.6	312.6	311.4	317.0	318.1	318.1	320.3	327.0	331.4	335.9	341.5
17.5°	308.0	307.0	307.0	312.6	312.6	315.9	320.3	324.8	330.4	335.9	338.1
20°	301.4	299.1	302.5	303.6	308.0	312.6	314.8	320.3	325.9	330.4	335.9
22.5°	294.7	291.4	295.9	295.9	303.6	305.8	309.2	315.9	320.3	327.0	332.6
25°	288.0	284.8	288.0	289.2	296.9	299.1	303.6	308.0	314.8	321.5	328.1
27.5°	279.1	274.7	278.1	281.4	288.0	291.4	293.6	300.3	308.0	314.8	321.5
30°	269.2	265.8	267.0	272.5	279.1	281.4	284.8	291.4	299.1	305.8	312.6
32.5°	260.3	255.8	255.8	262.5	269.2	270.3	274.7	282.5	289.2	296.9	304.8
35°	250.3	245.8	245.8	251.3	256.9	260.3	263.6	271.4	279.1	287.0	293.6
37.5°	239.1	234.7	235.8	241.4	245.8	249.1	252.5	260.3	267.0	275.9	283.6
40°	228.0	223.6	224.6	229.1	234.7	238.0	241.4	249.1	256.9	263.6	270.3
42.5°	215.8	212.5	213.5	218.0	222.4	226.9	230.3	236.9	244.6	251.3	256.9
45°	203.5	200.2	201.3	205.8	211.3	214.7	218.0	225.8	232.5	239.1	243.6
47.5°	190.2	187.9	189.1	193.5	200.2	202.4	205.8	213.5	220.2	225.8	231.3
50°	176.8	174.6	176.8	181.3	187.9	191.3	194.6	201.3	208.0	213.5	218.0
52.5°	163.5	161.3	164.7	170.2	175.8	179.0	183.5	190.2	195.8	201.3	204.7
55°	149.0	149.0	152.4	158.0	164.7	167.9	171.3	179.0	184.7	189.1	191.3
57.5°	134.6	135.7	140.1	146.8	153.4	156.8	161.3	166.9	172.4	176.8	179.0
60°	120.1	122.3	127.9	135.7	142.3	145.7	149.0	155.8	160.2	164.7	166.9
62.5°	106.8	110.2	116.8	123.5	131.2	134.6	137.9	144.5	149.0	151.2	153.4
65°	93.4	97.9	104.5	112.4	120.1	124.5	126.8	133.4	136.8	140.1	142.3
67.5°	81.2	86.8	94.5	102.3	109.0	113.4	116.8	122.3	125.7	127.9	130.2
70°	70.1	75.7	83.4	91.2	98.9	102.3	105.7	110.2	114.6	116.8	117.9
72.5°	58.9	65.6	74.5	81.2	89.0	92.3	94.5	100.1	103.5	105.7	106.8
75°	48.9	55.7	64.5	71.2	78.9	81.2	83.4	89.0	92.3	94.5	95.7
77.5°	40.0	46.7	54.5	61.2	67.8	71.2	73.4	77.9	80.1	82.3	83.4
80°	31.1	37.8	45.6	51.1	56.7	58.9	62.3	65.6	67.8	70.1	70.1
82.5°	23.4	28.9	35.6	40.0	44.4	46.7	48.9	53.4	54.5	55.7	54.5
85°	15.6	18.9	23.4	27.8	31.1	33.3	34.5	36.7	38.9	37.8	37.8
87.5°	7.8	8.9	12.3	13.3	15.6	16.7	17.8	18.9	17.8	17.8	16.7
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°	332.6	332.6	332.6	332.6	332.6	332.6	332.6	332.6	332.6	332.6
2.5°	330.4	330.4	330.4	330.4	330.4	330.4	330.4	330.4	330.4	330.4
5°	335.9	337.0	338.1	338.1	339.2	338.1	338.1	338.1	338.1	338.1
7.5°	333.6	335.9	337.0	339.2	340.3	341.5	342.5	343.7	343.7	343.7
10°	341.5	343.7	345.9	348.1	348.1	348.1	350.4	351.4	351.4	351.4
12.5°	342.5	345.9	349.2	351.4	352.6	353.6	353.6	353.6	354.8	354.8
15°	344.8	347.0	349.2	352.6	353.6	354.8	355.9	358.1	358.1	358.1
17.5°	343.7	347.0	350.4	353.6	355.9	357.0	359.2	361.5	361.5	361.5
20°	340.3	345.9	350.4	353.6	354.8	355.9	358.1	360.4	361.5	361.5
22.5°	338.1	342.5	348.1	352.6	353.6	354.8	357.0	359.2	361.5	361.5
25°	333.6	339.2	344.8	349.2	352.6	353.6	355.9	358.1	358.1	359.2
27.5°	328.1	333.6	340.3	343.7	344.8	347.0	350.4	352.6	353.6	354.8
30°	321.5	327.0	332.6	337.0	338.1	340.3	343.7	345.9	347.0	348.1
32.5°	311.4	318.1	322.5	328.1	330.4	331.4	333.6	335.9	337.0	338.1
35°	301.4	307.0	311.4	315.9	317.0	319.3	321.5	322.5	324.8	324.8
37.5°	289.2	294.7	299.1	302.5	303.6	304.8	308.0	309.2	310.4	310.4
40°	275.9	281.4	284.8	288.0	289.2	289.2	291.4	293.6	293.6	293.6
42.5°	262.5	265.8	269.2	271.4	273.6	273.6	274.7	275.9	275.9	275.9
45°	249.1	252.5	253.5	255.8	256.9	256.9	258.1	258.1	259.1	258.1
47.5°	234.7	236.9	238.0	240.2	240.2	240.2	240.2	241.4	241.4	241.4
50°	220.2	222.4	223.6	224.6	224.6	224.6	224.6	224.6	224.6	224.6
52.5°	206.9	208.0	209.1	209.1	209.1	209.1	209.1	208.0	208.0	208.0
55°	193.5	194.6	194.6	193.5	194.6	193.5	193.5	192.4	193.5	193.5
57.5°	180.2	181.3	180.2	180.2	180.2	179.0	179.0	179.0	179.0	178.0
60°	166.9	167.9	166.9	166.9	165.7	165.7	165.7	164.7	164.7	165.7
62.5°	155.8	154.6	153.4	153.4	152.4	152.4	151.2	151.2	151.2	151.2
65°	142.3	142.3	141.3	140.1	140.1	140.1	139.0	139.0	139.0	140.1
67.5°	131.2	130.2	129.0	127.9	127.9	126.8	126.8	126.8	126.8	126.8
70°	119.0	117.9	116.8	115.7	115.7	115.7	115.7	115.7	115.7	115.7
72.5°	106.8	105.7	105.7	104.5	104.5	104.5	103.5	103.5	103.5	104.5
75°	95.7	94.5	93.4	92.3	92.3	92.3	91.2	91.2	91.2	90.1
77.5°	83.4	82.3	80.1	78.9	77.9	77.9	76.7	76.7	76.7	75.7
80°	69.0	66.8	65.6	64.5	63.4	63.4	62.3	62.3	62.3	62.3
82.5°	53.4	52.3	51.1	50.1	47.8	47.8	46.7	47.8	47.8	46.7
85°	36.7	35.6	33.3	32.3	32.3	31.1	31.1	31.1	30.1	30.1
87.5°	16.7	15.6	15.6	14.5	13.3	13.3	13.3	12.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)