

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: P178867

Luminaire Tested: **22SR-LD2-29-C-UNV-EL7W-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P178867
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-L835-CD1-U
Description: METALUX SKYRIDGE 2X2 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 983.0 lumens
Efficiency: N/A
Efficacy: 158.6 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

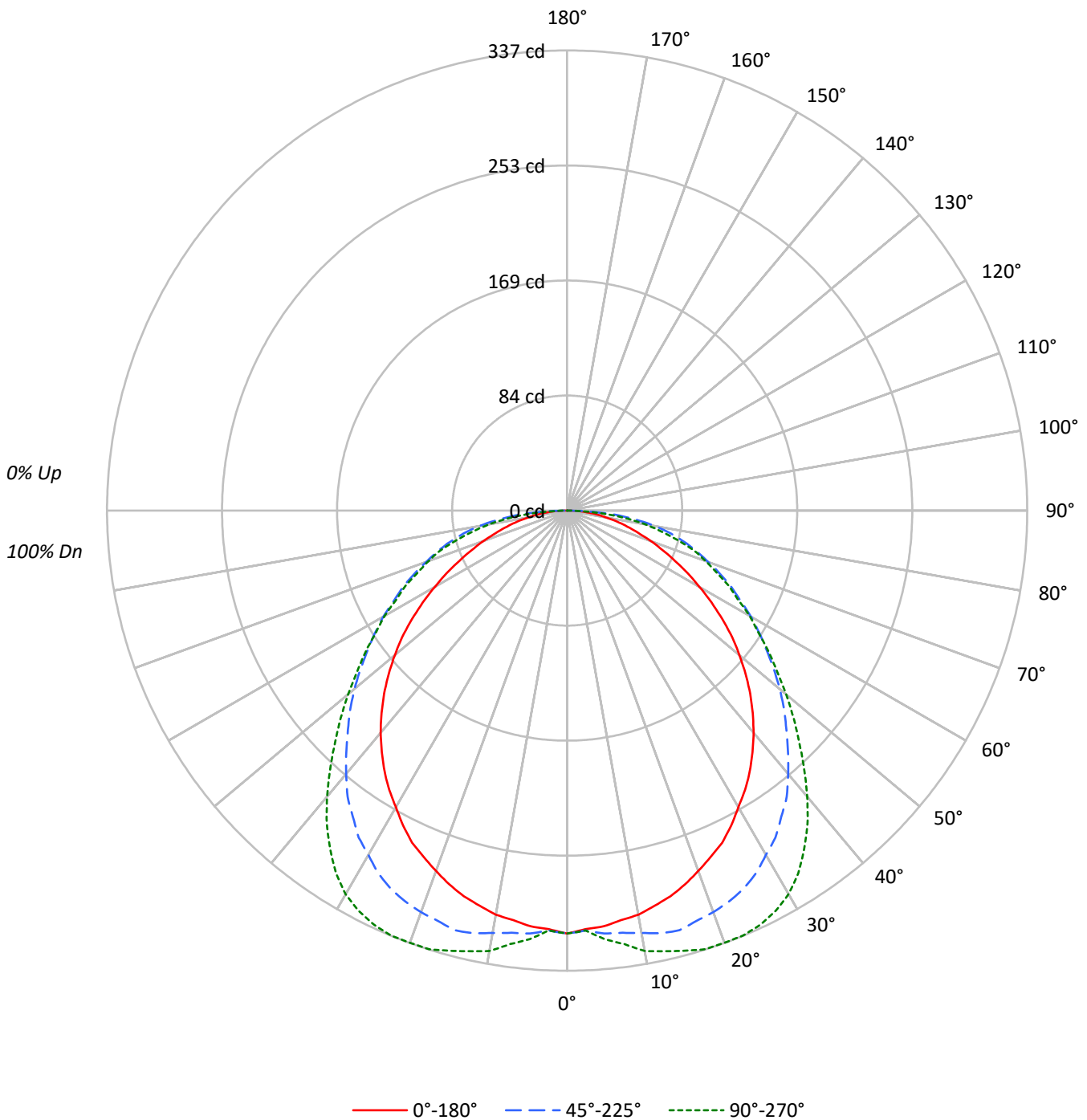
Input Watts (W): 6.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	834	834	834
5°	826	840	851
10°	821	858	895
15°	814	886	930
20°	804	896	964
25°	797	908	994
30°	779	905	1008
35°	766	899	994
40°	746	885	961
45°	722	864	915
50°	690	851	876
55°	651	837	846
60°	603	836	831
65°	555	845	832
70°	514	864	848
75°	474	926	872
80°	449	1012	899
85°	448	1087	861



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	3.0
10°-20°	88.9	9.0
20°-30°	139.3	14.2
30°-40°	168.3	17.1
40°-50°	169.8	17.3
50°-60°	151.2	15.4
60°-70°	121.0	12.3
70°-80°	83.5	8.5
80°-90°	31.4	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°	257.9	26.2
0°-40°	426.2	43.4
0°-60°	747.2	76.0
0°-90°	983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	310	310	310	310	310	
5°	306	306	311	316	315	29
15°	292	296	318	330	334	82
25°	268	279	306	329	335	123
35°	233	242	274	295	303	146
45°	190	200	227	239	240	146
55°	139	156	178	181	180	124
65°	87	116	133	131	131	87
75°	46	76	89	86	84	49
85°	14	31	35	30	28	16
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°	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8
2.5°	306.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8
5°	305.7	306.8	305.7	305.7	305.7	305.7	305.7	305.7	307.8	308.9	310.9
7.5°	302.6	303.7	302.6	302.6	303.7	303.7	305.7	308.9	310.9	311.9	311.9
10°	300.5	301.6	299.5	299.5	303.7	305.7	306.8	307.8	306.8	309.8	314.1
12.5°	296.4	296.4	294.3	298.5	302.6	302.6	301.6	303.7	308.9	314.1	317.1
15°	292.3	291.2	290.2	295.3	296.4	296.4	298.5	304.6	308.9	313.0	318.2
17.5°	287.1	286.0	286.0	291.2	291.2	294.3	298.5	302.6	307.8	313.0	315.0
20°	280.8	278.8	281.9	283.0	287.1	291.2	293.3	298.5	303.7	307.8	313.0
22.5°	274.6	271.5	275.7	275.7	283.0	285.0	288.1	294.3	298.5	304.6	309.8
25°	268.5	265.3	268.5	269.4	276.7	278.8	283.0	287.1	293.3	299.5	305.7
27.5°	260.1	256.0	259.0	262.2	268.5	271.5	273.6	279.8	287.1	293.3	299.5
30°	250.8	247.7	248.8	254.0	260.1	262.2	265.3	271.5	278.8	285.0	291.2
32.5°	242.5	238.4	238.4	244.5	250.8	251.8	256.0	263.3	269.4	276.7	284.0
35°	233.2	229.0	229.0	234.2	239.4	242.5	245.6	252.9	260.1	267.4	273.6
37.5°	222.9	218.7	219.7	224.9	229.0	232.2	235.2	242.5	248.8	257.0	264.2
40°	212.5	208.4	209.3	213.5	218.7	221.8	224.9	232.2	239.4	245.6	251.8
42.5°	201.1	198.0	198.9	203.2	207.3	211.4	214.5	220.7	228.0	234.2	239.4
45°	189.6	186.6	187.6	191.7	196.9	200.0	203.2	210.4	216.6	222.9	227.0
47.5°	177.2	175.1	176.2	180.3	186.6	188.6	191.7	198.9	205.2	210.4	215.5
50°	164.8	162.7	164.8	168.9	175.1	178.3	181.4	187.6	193.8	198.9	203.2
52.5°	152.4	150.3	153.4	158.5	163.7	166.9	171.0	177.2	182.4	187.6	190.7
55°	138.8	138.8	142.0	147.2	153.4	156.5	159.6	166.9	172.1	176.2	178.3
57.5°	125.4	126.5	130.6	136.8	143.1	146.1	150.3	155.4	160.6	164.8	166.9
60°	112.0	114.0	119.2	126.5	132.7	135.8	138.8	145.1	149.2	153.4	155.4
62.5°	99.5	102.6	108.8	115.0	122.3	125.4	128.5	134.7	138.8	140.9	143.1
65°	87.1	91.2	97.5	104.7	112.0	116.1	118.2	124.3	127.5	130.6	132.7
67.5°	75.7	80.8	88.0	95.3	101.6	105.7	108.8	114.0	117.1	119.2	121.3
70°	65.3	70.5	77.8	85.0	92.3	95.3	98.4	102.6	106.8	108.8	109.8
72.5°	54.9	61.2	69.4	75.7	83.0	86.0	88.0	93.2	96.4	98.4	99.5
75°	45.6	51.9	60.1	66.3	73.5	75.7	77.8	83.0	86.0	88.0	89.1
77.5°	37.4	43.5	50.8	57.0	63.2	66.3	68.4	72.6	74.6	76.7	77.8
80°	29.0	35.2	42.5	47.7	52.8	54.9	58.0	61.2	63.2	65.3	65.3
82.5°	21.8	27.0	33.1	37.4	41.5	43.5	45.6	49.7	50.8	51.9	50.8
85°	14.5	17.6	21.8	25.9	29.0	31.1	32.2	34.2	36.3	35.2	35.2
87.5°	7.3	8.3	11.4	12.5	14.5	15.6	16.6	17.6	16.6	16.6	15.6
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°	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8	309.8
2.5°	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8	307.8
5°	313.0	314.1	315.0	315.0	316.1	315.0	315.0	315.0	315.0	315.0
7.5°	310.9	313.0	314.1	316.1	317.1	318.2	319.3	320.2	320.2	320.2
10°	318.2	320.2	322.3	324.4	324.4	324.4	326.4	327.5	327.5	327.5
12.5°	319.3	322.3	325.4	327.5	328.6	329.5	329.5	329.5	330.6	330.6
15°	321.3	323.4	325.4	328.6	329.5	330.6	331.6	333.7	333.7	333.7
17.5°	320.2	323.4	326.4	329.5	331.6	332.7	334.7	336.8	336.8	336.8
20°	317.1	322.3	326.4	329.5	330.6	331.6	333.7	335.8	336.8	336.8
22.5°	315.0	319.3	324.4	328.6	329.5	330.6	332.7	334.7	336.8	336.8
25°	310.9	316.1	321.3	325.4	328.6	329.5	331.6	333.7	333.7	334.7
27.5°	305.7	310.9	317.1	320.2	321.3	323.4	326.4	328.6	329.5	330.6
30°	299.5	304.6	309.8	314.1	315.0	317.1	320.2	322.3	323.4	324.4
32.5°	290.2	296.4	300.5	305.7	307.8	308.9	310.9	313.0	314.1	315.0
35°	280.8	286.0	290.2	294.3	295.3	297.5	299.5	300.5	302.6	302.6
37.5°	269.4	274.6	278.8	281.9	283.0	284.0	287.1	288.1	289.2	289.2
40°	257.0	262.2	265.3	268.5	269.4	269.4	271.5	273.6	273.6	273.6
42.5°	244.5	247.7	250.8	252.9	254.9	254.9	256.0	257.0	257.0	257.0
45°	232.2	235.2	236.3	238.4	239.4	239.4	240.4	240.4	241.5	240.4
47.5°	218.7	220.7	221.8	223.8	223.8	223.8	223.8	224.9	224.9	224.9
50°	205.2	207.3	208.4	209.3	209.3	209.3	209.3	209.3	209.3	209.3
52.5°	192.8	193.8	194.8	194.8	194.8	194.8	194.8	193.8	193.8	193.8
55°	180.3	181.4	181.4	180.3	181.4	180.3	180.3	179.3	180.3	180.3
57.5°	167.9	168.9	167.9	167.9	167.9	166.9	166.9	166.9	166.9	165.8
60°	155.4	156.5	155.4	155.4	154.4	154.4	154.4	153.4	153.4	154.4
62.5°	145.1	144.0	143.1	143.1	142.0	142.0	140.9	140.9	140.9	140.9
65°	132.7	132.7	131.6	130.6	130.6	130.6	129.5	129.5	129.5	130.6
67.5°	122.3	121.3	120.2	119.2	119.2	118.2	118.2	118.2	118.2	118.2
70°	110.9	109.8	108.8	107.8	107.8	107.8	107.8	107.8	107.8	107.8
72.5°	99.5	98.4	98.4	97.5	97.5	97.5	96.4	96.4	96.4	97.5
75°	89.1	88.0	87.1	86.0	86.0	86.0	85.0	85.0	85.0	83.9
77.5°	77.8	76.7	74.6	73.5	72.6	72.6	71.5	71.5	71.5	70.5
80°	64.2	62.2	61.2	60.1	59.0	59.0	58.0	58.0	58.0	58.0
82.5°	49.7	48.7	47.7	46.7	44.5	44.5	43.5	44.5	44.5	43.5
85°	34.2	33.1	31.1	30.1	30.1	29.0	29.0	29.0	27.9	27.9
87.5°	15.6	14.5	14.5	13.4	12.5	12.5	12.5	11.4	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)