

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: P183862

Luminaire Tested: **22SR-LD2-29-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183862
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-L830-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2859.6 lumens
Efficiency: N/A
Efficacy: 122.2 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

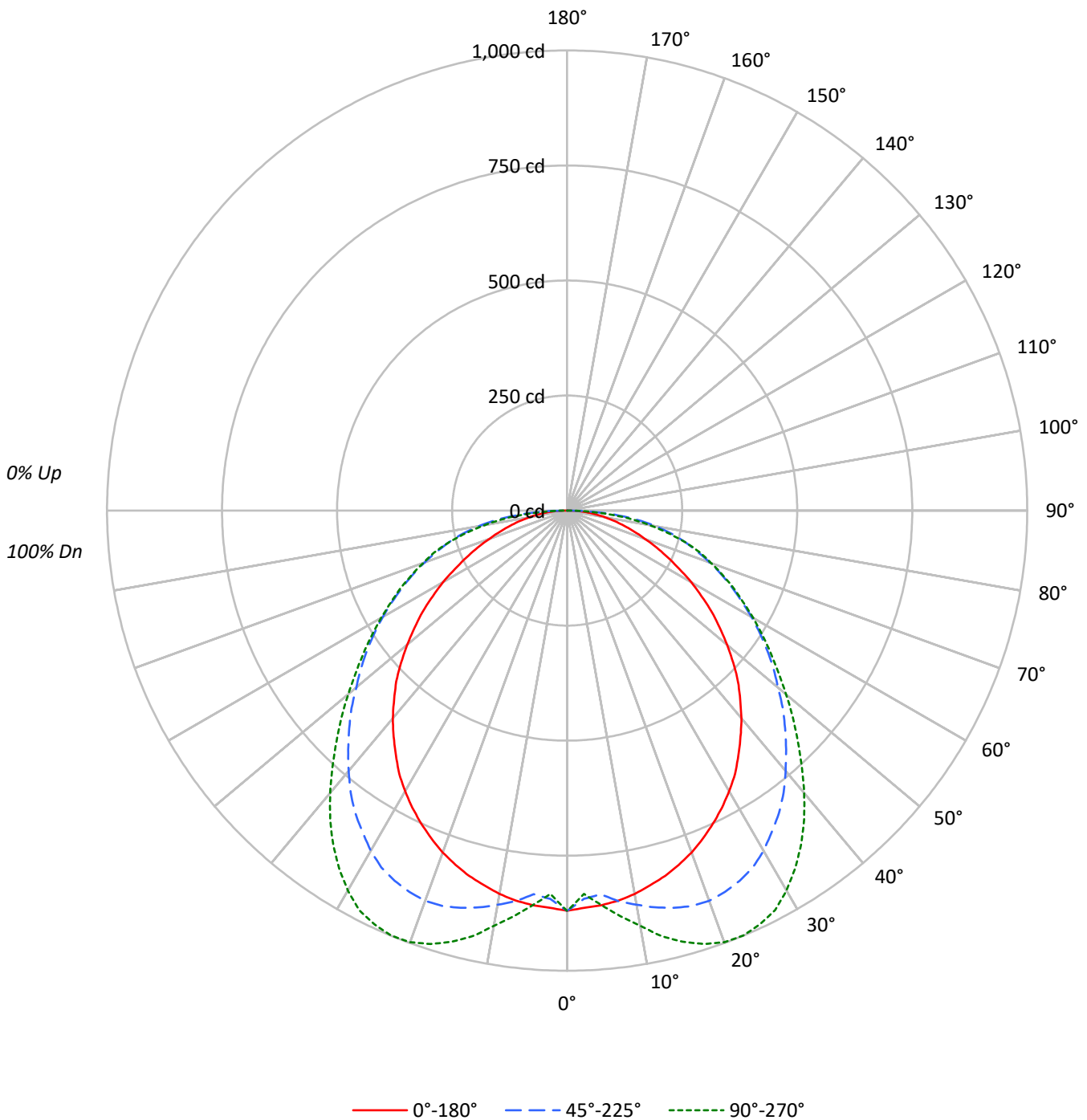
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2340	2340	2340
5°	2325	2261	2325
10°	2311	2376	2503
15°	2290	2489	2701
20°	2264	2585	2858
25°	2228	2635	2946
30°	2188	2651	2962
35°	2132	2637	2911
40°	2070	2594	2814
45°	1998	2549	2697
50°	1899	2504	2598
55°	1799	2492	2533
60°	1678	2489	2513
65°	1539	2517	2546
70°	1420	2594	2618
75°	1334	2760	2760
80°	1294	3028	2820
85°	1291	3223	2763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	2.9
10°-20°	251.1	8.8
20°-30°	401.2	14.0
30°-40°	485.2	17.0
40°-50°	492.1	17.2
50°-60°	443.2	15.5
60°-70°	358.9	12.5
70°-80°	250.4	8.8
80°-90°	95.7	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°	734.0	25.7
0°-40°	1219.1	42.6
0°-60°	2154.5	75.3
0°-90°	2859.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2859.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	870	870	870	870	870	
5°	861	834	837	858	861	82
15°	822	820	894	952	970	232
25°	750	776	888	968	992	346
35°	649	682	803	870	886	406
45°	525	568	670	704	709	404
55°	383	452	531	540	540	342
65°	242	336	395	392	400	241
75°	128	224	266	263	266	137
85°	42	92	104	94	90	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°	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7
2.5°	863.8	865.3	863.8	862.3	860.8	859.3	857.8	854.8	850.4	847.4	844.4
5°	860.8	860.8	854.8	845.9	838.4	833.9	829.5	826.5	828.0	832.5	836.9
7.5°	854.8	851.8	838.4	826.5	820.5	820.5	823.5	833.9	844.4	851.8	856.3
10°	845.9	839.9	820.5	811.6	819.0	825.0	832.5	842.9	848.9	857.8	869.7
12.5°	833.9	825.0	802.6	805.6	820.5	828.0	832.5	841.4	856.3	871.2	883.2
15°	822.0	807.1	787.7	801.1	816.0	820.5	826.5	844.4	860.8	875.7	893.6
17.5°	807.1	787.7	774.3	790.7	804.1	813.1	823.5	841.4	860.8	881.7	901.1
20°	790.7	768.3	760.8	778.7	795.2	805.6	814.5	836.9	859.3	880.2	902.6
22.5°	771.3	744.4	744.4	760.8	781.7	790.7	802.6	828.0	850.4	874.2	896.6
25°	750.4	722.1	725.0	742.9	763.8	775.8	787.7	813.1	839.9	862.3	887.6
27.5°	728.0	698.2	704.2	722.1	741.4	756.4	769.8	796.6	822.0	848.9	874.2
30°	704.2	674.3	678.8	696.7	719.1	734.0	747.4	774.3	801.1	829.5	853.3
32.5°	678.8	649.0	653.4	671.3	695.2	708.6	722.1	748.9	778.7	805.6	828.0
35°	649.0	622.1	626.6	644.5	668.3	681.8	695.2	725.0	751.9	777.3	802.6
37.5°	619.1	593.8	596.7	616.1	641.5	654.9	668.3	696.7	723.5	748.9	772.8
40°	589.3	565.4	569.9	587.8	613.1	625.1	638.5	668.3	695.2	719.1	738.5
42.5°	556.5	537.1	541.5	559.4	583.3	596.7	611.7	638.5	663.9	686.2	704.2
45°	525.1	508.7	511.7	529.6	553.5	568.4	581.8	610.2	634.0	651.9	669.8
47.5°	489.3	475.9	483.4	501.3	525.1	538.6	553.5	580.3	601.2	620.6	635.5
50°	453.5	443.1	452.0	471.4	495.3	511.7	525.1	549.0	569.9	587.8	598.2
52.5°	417.7	413.2	422.2	441.6	466.9	480.4	493.8	519.2	540.0	555.0	565.4
55°	383.4	380.4	392.4	413.2	440.1	452.0	465.5	489.3	508.7	522.1	531.1
57.5°	346.1	347.6	361.0	384.9	410.3	423.7	435.6	458.0	477.4	487.8	496.8
60°	311.8	313.3	331.2	355.1	381.9	395.3	407.3	428.2	444.6	455.0	462.5
62.5°	274.5	283.5	302.8	325.2	352.1	365.5	378.9	398.3	414.7	423.7	428.2
65°	241.7	252.1	274.5	298.4	325.2	335.7	349.1	368.5	381.9	390.9	395.3
67.5°	210.4	223.8	246.2	271.5	296.9	310.3	320.7	338.6	350.6	358.0	362.5
70°	180.5	196.9	220.8	244.7	268.5	280.5	290.9	308.8	319.3	326.7	329.7
72.5°	153.7	170.1	195.4	217.8	240.2	253.6	262.6	279.0	289.4	295.4	296.9
75°	128.3	146.2	168.6	191.0	213.3	223.8	234.2	247.6	258.1	264.1	265.5
77.5°	105.9	122.3	144.7	165.6	185.0	193.9	204.4	217.8	226.8	231.2	232.7
80°	83.5	100.0	119.3	138.7	156.6	162.6	171.6	183.5	193.9	195.4	195.4
82.5°	62.7	77.6	94.0	110.4	125.3	131.3	137.2	147.7	153.7	155.2	153.7
85°	41.8	52.2	64.1	76.1	88.0	92.5	98.5	105.9	105.9	108.9	104.4
87.5°	20.9	25.4	32.8	37.3	44.8	47.7	50.7	52.2	52.2	52.2	50.7
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°	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7	869.7
2.5°	841.4	839.9	836.9	836.9	836.9	835.4	835.4	835.4	833.9	833.9
5°	842.9	847.4	853.3	857.8	857.8	857.8	859.3	859.3	860.8	860.8
7.5°	860.8	865.3	871.2	875.7	878.7	880.2	884.7	886.2	889.1	889.1
10°	881.7	889.1	896.6	901.1	905.6	908.5	910.0	916.0	916.0	916.0
12.5°	895.1	907.0	917.5	927.9	932.4	935.4	939.9	942.8	947.3	947.3
15°	910.0	923.5	935.4	947.3	951.8	956.3	962.2	966.7	968.2	969.7
17.5°	917.5	933.9	947.3	959.3	963.7	968.2	977.2	983.1	986.1	987.6
20°	920.5	938.4	954.8	968.2	974.2	978.7	987.6	993.6	998.0	998.0
22.5°	919.0	936.9	954.8	969.7	975.7	980.1	989.1	995.1	998.0	999.5
25°	911.5	929.4	947.3	962.2	968.2	972.7	981.6	987.6	992.1	992.1
27.5°	896.6	916.0	932.4	947.3	951.8	959.3	966.7	972.7	977.2	978.7
30°	875.7	895.1	913.0	924.9	930.9	935.4	942.8	950.3	951.8	953.3
32.5°	850.4	869.7	884.7	896.6	902.6	907.0	914.5	920.5	923.5	922.0
35°	822.0	838.4	853.3	865.3	869.7	872.7	880.2	883.2	886.2	886.2
37.5°	790.7	804.1	819.0	828.0	831.0	833.9	839.9	844.4	844.4	845.9
40°	753.4	768.3	778.7	787.7	790.7	792.2	798.1	799.6	801.1	801.1
42.5°	719.1	731.0	738.5	744.4	747.4	750.4	753.4	753.4	753.4	754.9
45°	681.8	690.7	698.2	702.7	704.2	705.6	707.1	708.6	708.6	708.6
47.5°	646.0	653.4	657.9	662.4	662.4	663.9	663.9	665.4	665.4	665.4
50°	607.2	613.1	616.1	619.1	619.1	619.1	620.6	620.6	620.6	620.6
52.5°	571.4	575.9	577.3	578.8	578.8	580.3	580.3	578.8	580.3	578.8
55°	535.6	538.6	540.0	538.6	540.0	540.0	540.0	538.6	540.0	540.0
57.5°	499.8	501.3	501.3	499.8	501.3	499.8	499.8	501.3	502.8	502.8
60°	464.0	464.0	462.5	462.5	462.5	462.5	462.5	465.5	465.5	466.9
62.5°	429.7	429.7	428.2	426.7	426.7	426.7	428.2	429.7	431.1	431.1
65°	395.3	395.3	393.8	392.4	392.4	392.4	393.8	395.3	396.8	399.8
67.5°	364.0	361.0	361.0	359.5	359.5	359.5	362.5	364.0	365.5	365.5
70°	328.2	328.2	325.2	326.7	326.7	326.7	328.2	329.7	331.2	332.7
72.5°	296.9	295.4	293.9	295.4	295.4	295.4	296.9	299.9	301.4	302.8
75°	265.5	264.1	264.1	262.6	262.6	264.1	264.1	265.5	265.5	265.5
77.5°	232.7	228.3	226.8	223.8	223.8	223.8	223.8	223.8	223.8	223.8
80°	193.9	188.0	183.5	183.5	182.0	182.0	182.0	182.0	180.5	182.0
82.5°	149.2	146.2	141.7	140.2	140.2	140.2	137.2	137.2	137.2	140.2
85°	101.4	100.0	95.5	94.0	94.0	92.5	91.0	91.0	92.5	89.5
87.5°	49.2	47.7	44.8	44.8	44.8	43.3	43.3	41.8	43.3	41.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)