

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: P188560

Luminaire Tested: **24SR-LD2-29-C-UNV-L850-CD1-PL-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P188560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24637)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-29-C-UNV-L850-CD1-PL-U  
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.  
  
Light Source: EATON LED 5000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

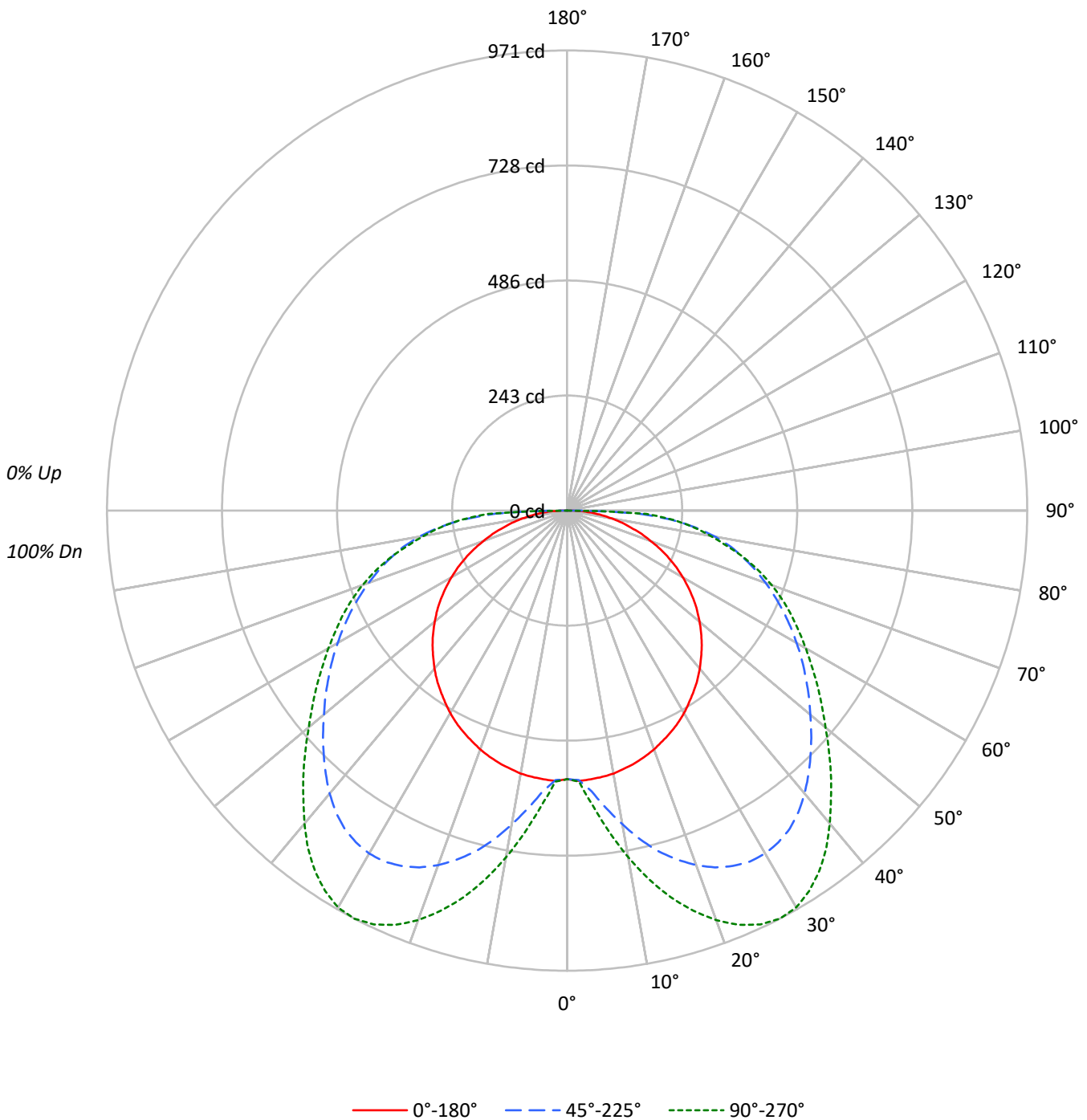
Lumens per Lamp: N/A  
Luminaire Lumens: 3125.0 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.98 / 1.87  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	106	100	95	90	103	98	93	88	93	89	85	89	86	83	86	83	80	78
2	95	85	77	70	92	83	76	70	80	73	68	76	71	66	73	69	65	62
3	86	74	64	57	83	72	63	56	69	61	55	66	60	54	63	58	53	51
4	78	64	55	47	75	63	54	47	60	52	46	58	51	45	56	50	45	42
5	71	57	47	40	69	56	47	40	54	45	39	52	44	39	50	43	38	36
6	65	51	41	34	63	50	41	34	48	40	34	46	39	33	45	38	33	31
7	60	46	36	30	59	45	36	30	43	35	29	42	35	29	40	34	29	27
8	56	42	32	26	54	41	32	26	39	32	26	38	31	26	37	30	26	23
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21
10	49	35	26	21	48	34	26	21	33	26	21	32	25	21	31	25	20	19

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

	0°	45°	90°
0°	763	763	763
5°	769	803	845
10°	770	919	1016
15°	769	1036	1177
20°	768	1140	1317
25°	767	1228	1431
30°	766	1298	1502
35°	764	1346	1524
40°	765	1369	1514
45°	765	1383	1498
50°	763	1402	1490
55°	762	1442	1513
60°	759	1505	1565
65°	754	1602	1663
70°	740	1753	1808
75°	729	2003	2015
80°	735	2455	2378
85°	803	3401	3464



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	1.9
10°-20°	204.7	6.5
20°-30°	362.8	11.6
30°-40°	477.4	15.3
40°-50°	517.7	16.6
50°-60°	504.0	16.1
60°-70°	452.8	14.5
70°-80°	358.7	11.5
80°-90°	188.0	6.0
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°	626.4	20.0
0°-40°	1103.8	35.3
0°-60°	2125.5	68.0
0°-90°	3125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	569	569	595	618	625	54
15°	552	624	744	819	845	156
25°	516	658	827	928	964	238
35°	465	641	819	903	928	291
45°	402	581	727	775	787	310
55°	325	505	615	636	645	290
65°	237	424	503	513	522	234
75°	140	318	385	386	388	149
85°	52	169	220	221	224	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8
2.5°	570.9	570.1	569.2	568.4	567.6	566.8	566.8	566.8	567.6	569.2	571.7
5°	569.2	568.4	567.6	567.6	568.4	570.1	575.0	580.8	586.6	594.8	603.9
7.5°	566.8	565.9	565.9	567.6	574.2	584.1	595.6	608.0	620.4	633.6	646.0
10°	563.5	562.6	563.5	570.9	585.7	602.2	619.6	636.9	653.4	672.3	689.7
12.5°	557.7	557.7	561.8	576.7	598.1	620.4	642.7	665.7	687.2	710.3	730.1
15°	551.9	551.9	561.0	583.3	610.5	636.9	664.9	692.1	717.7	744.1	767.2
17.5°	544.5	544.5	560.2	588.2	619.6	651.7	683.9	714.4	743.3	772.2	796.9
20°	536.2	537.9	558.5	592.3	627.8	664.1	698.7	732.6	764.7	796.1	823.3
22.5°	526.3	529.6	556.0	594.0	634.4	672.3	710.3	746.6	780.4	815.1	842.3
25°	516.4	521.4	552.7	594.0	636.9	678.1	717.7	755.7	792.0	827.4	857.1
27.5°	505.7	512.3	547.8	591.5	637.7	679.8	721.0	760.6	798.6	834.9	865.4
30°	493.3	501.6	540.4	586.6	634.4	677.3	720.2	761.4	799.4	835.7	865.4
32.5°	479.3	490.0	531.3	579.1	627.8	671.5	714.4	755.7	794.4	829.9	858.0
35°	465.3	478.5	521.4	570.1	618.7	662.5	705.3	747.4	785.4	819.2	843.9
37.5°	451.3	465.3	509.0	557.7	606.4	650.1	693.8	734.2	770.5	801.9	824.1
40°	435.6	451.3	495.0	544.5	592.3	636.1	678.9	717.7	750.7	779.6	800.2
42.5°	418.3	435.6	480.1	529.6	576.7	619.6	660.8	697.1	728.4	754.0	771.3
45°	401.8	419.9	464.5	514.0	560.2	602.2	641.8	675.6	703.7	726.8	741.6
47.5°	383.6	402.6	448.8	496.6	542.0	583.3	621.2	651.7	678.9	698.7	711.9
50°	364.6	385.3	431.5	479.3	523.9	564.3	600.6	628.6	653.4	669.9	682.2
52.5°	345.7	367.1	413.3	461.2	505.7	544.5	579.1	606.4	627.8	642.7	653.4
55°	325.0	349.0	395.2	443.0	485.9	524.7	557.7	582.4	602.2	614.6	624.5
57.5°	303.6	329.2	377.0	424.9	467.8	504.9	536.2	559.3	576.7	587.4	594.8
60°	282.1	309.4	357.2	405.1	447.1	484.3	514.0	535.4	551.1	559.3	565.1
62.5°	259.9	288.7	337.4	385.3	428.2	462.8	490.9	510.7	524.7	531.3	537.1
65°	236.8	267.3	316.8	364.6	407.5	439.7	466.9	485.1	497.5	503.2	506.5
67.5°	212.8	245.0	295.3	343.2	384.4	415.8	441.4	459.5	469.4	474.4	476.8
70°	188.1	221.9	272.2	320.1	359.7	389.4	414.1	430.6	440.5	445.5	446.3
72.5°	165.0	198.0	249.1	295.3	333.3	362.2	385.3	402.6	412.5	416.6	416.6
75°	140.2	173.2	223.6	268.1	304.4	332.5	355.6	372.1	381.1	385.3	385.3
77.5°	118.8	149.3	196.3	239.2	273.1	300.3	322.6	339.9	349.8	353.9	353.9
80°	94.9	124.6	168.3	207.9	239.2	264.0	287.1	305.2	315.1	316.8	314.3
82.5°	73.4	100.6	137.8	173.2	202.1	225.2	248.3	263.2	270.6	272.2	271.4
85°	52.0	74.2	105.6	134.5	158.4	179.8	196.3	210.4	217.8	220.3	221.9
87.5°	30.5	42.9	62.7	85.0	103.1	117.1	127.0	139.4	146.8	151.8	156.7
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	566.8	566.8	566.8	566.8	566.8	566.8	566.8	566.8
2.5°	570.9	571.7	572.5	572.5	572.5	573.4	572.5	572.5
5°	607.2	612.1	616.3	618.7	621.2	625.3	624.5	625.3
7.5°	652.6	660.8	669.9	674.8	678.1	683.1	684.7	684.7
10°	699.6	711.1	721.8	729.3	734.2	741.6	742.5	743.3
12.5°	744.1	758.1	770.5	778.8	786.2	792.8	796.1	796.9
15°	782.1	799.4	813.4	824.1	831.6	839.0	843.1	844.8
17.5°	815.9	834.0	849.7	862.1	871.2	878.6	883.5	885.2
20°	842.3	862.1	879.4	892.6	903.3	911.6	918.2	919.8
22.5°	863.7	884.4	902.5	917.4	928.1	938.0	943.8	946.2
25°	879.4	901.7	920.7	934.7	946.2	955.3	961.1	963.6
27.5°	888.5	910.8	928.9	942.9	954.5	962.7	968.5	971.0
30°	888.5	909.9	928.1	941.3	952.0	960.3	964.4	966.9
32.5°	879.4	900.0	916.5	928.1	938.0	946.2	949.5	951.2
35°	864.6	882.7	897.6	907.5	915.7	923.1	926.4	928.1
37.5°	843.1	859.6	871.2	880.2	886.8	894.3	896.7	898.4
40°	815.9	831.6	839.8	848.1	853.8	860.4	862.1	862.1
42.5°	786.2	799.4	807.6	813.4	817.5	821.7	824.1	824.1
45°	754.8	766.4	772.2	777.1	781.2	784.5	787.0	787.0
47.5°	723.5	732.6	737.5	740.8	744.1	747.4	749.1	749.1
50°	692.1	698.7	702.9	705.3	708.6	711.1	712.8	711.9
52.5°	660.8	665.7	669.0	671.5	673.2	675.6	676.5	677.3
55°	629.5	632.8	635.2	636.9	640.2	642.7	643.5	645.1
57.5°	598.9	600.6	603.9	604.7	608.0	610.5	611.3	612.1
60°	567.6	569.2	571.7	573.4	577.5	579.1	580.0	581.6
62.5°	537.1	537.9	541.2	544.5	547.8	549.4	550.3	551.1
65°	506.5	509.0	511.5	514.0	517.3	519.7	520.6	522.2
67.5°	476.8	478.5	481.8	484.3	486.7	489.2	490.9	491.7
70°	446.3	448.0	450.4	452.1	454.6	457.0	459.5	459.5
72.5°	416.6	416.6	418.3	419.9	422.4	424.0	424.9	424.9
75°	384.4	383.6	385.3	386.1	386.1	386.1	386.9	387.7
77.5°	349.8	346.5	344.8	344.8	345.7	344.0	344.8	345.7
80°	310.2	306.9	306.1	306.1	306.9	306.1	306.9	306.9
82.5°	268.1	268.1	265.6	266.5	267.3	265.6	267.3	268.9
85°	219.4	220.3	219.4	221.9	221.9	221.9	222.7	224.4
87.5°	157.6	162.5	160.9	164.2	163.3	164.2	165.0	167.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)