

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: P188562

Luminaire Tested: **24SR-LD2-34-C-UNV-L830-CD1-PL-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P188562
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-LD2-34-C-UNV-L830-CD1-PL-U
Description: METALUX 2X4 SKYRIDGE LED FIXTURE WITH PEARL SKYTRIM.

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3230.0 lumens
Efficiency: N/A
Efficacy: 118.7 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

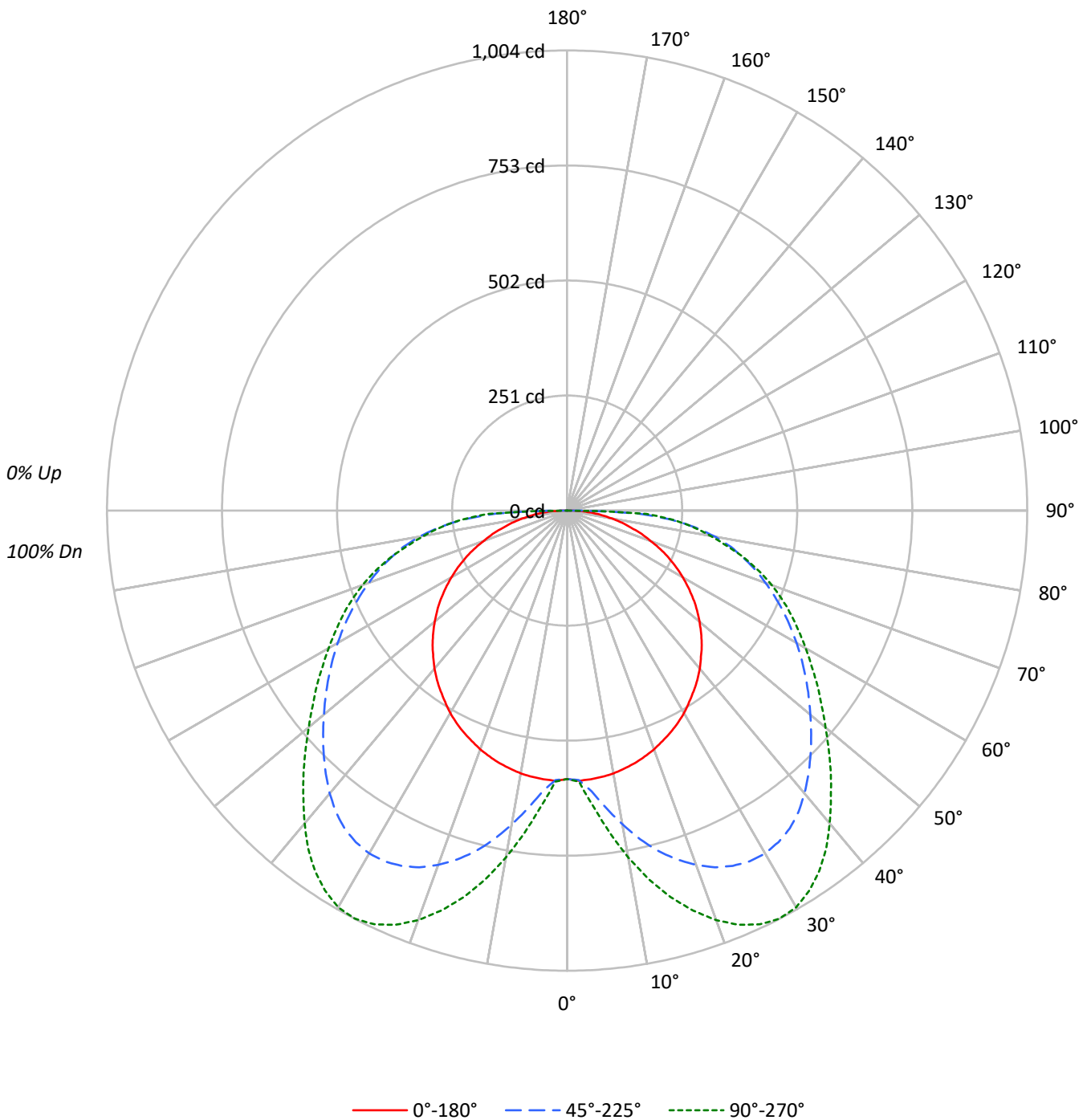
Input Watts (W): 27.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	788	788	788
5°	795	830	873
10°	796	949	1050
15°	795	1071	1216
20°	794	1178	1361
25°	792	1270	1478
30°	792	1342	1553
35°	790	1391	1576
40°	791	1415	1565
45°	790	1429	1548
50°	789	1449	1540
55°	788	1490	1564
60°	785	1556	1618
65°	779	1656	1719
70°	765	1812	1868
75°	754	2070	2084
80°	760	2537	2458
85°	829	3515	3580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	1.9
10°-20°	211.6	6.5
20°-30°	375.0	11.6
30°-40°	493.5	15.3
40°-50°	535.1	16.6
50°-60°	520.9	16.1
60°-70°	468.0	14.5
70°-80°	370.7	11.5
80°-90°	194.3	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°	647.5	20.0
0°-40°	1140.9	35.3
0°-60°	2196.9	68.0
0°-90°	3230.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3230.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	586	586	586	586	586	
5°	588	588	615	638	646	56
15°	570	645	769	846	873	161
25°	534	680	855	959	996	246
35°	481	662	847	933	959	301
45°	415	601	751	801	814	320
55°	336	522	635	657	667	300
65°	245	438	520	530	540	242
75°	145	329	398	399	401	154
85°	54	175	228	228	232	57
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°	585.8	585.8	585.8	585.8	585.8	585.8	585.8	585.8	585.8	585.8	585.8
2.5°	590.1	589.2	588.4	587.5	586.6	585.8	585.8	585.8	586.6	588.4	590.9
5°	588.4	587.5	586.6	586.6	587.5	589.2	594.3	600.3	606.3	614.8	624.2
7.5°	585.8	584.9	584.9	586.6	593.5	603.7	615.6	628.4	641.2	654.9	667.7
10°	582.4	581.5	582.4	590.1	605.4	622.5	640.4	658.3	675.3	694.9	712.8
12.5°	576.4	576.4	580.7	596.0	618.2	641.2	664.2	688.1	710.3	734.2	754.6
15°	570.4	570.4	579.8	602.9	631.0	658.3	687.3	715.4	741.8	769.1	793.0
17.5°	562.8	562.8	579.0	608.0	640.4	673.6	706.9	738.4	768.3	798.1	823.7
20°	554.2	556.0	577.3	612.2	648.9	686.4	722.2	757.2	790.4	822.8	851.0
22.5°	544.0	547.4	574.7	613.9	655.7	694.9	734.2	771.7	806.6	842.5	870.6
25°	533.8	538.9	571.3	613.9	658.3	700.9	741.8	781.1	818.6	855.2	885.9
27.5°	522.7	529.5	566.2	611.4	659.1	702.6	745.2	786.2	825.4	862.9	894.5
30°	509.9	518.4	558.5	606.3	655.7	700.1	744.4	787.0	826.3	863.8	894.5
32.5°	495.4	506.5	549.1	598.6	648.9	694.1	738.4	781.1	821.1	857.8	886.8
35°	480.9	494.6	538.9	589.2	639.5	684.7	729.0	772.5	811.8	846.7	872.3
37.5°	466.4	480.9	526.1	576.4	626.7	671.9	717.1	758.9	796.4	828.8	851.8
40°	450.2	466.4	511.6	562.8	612.2	657.4	701.8	741.8	775.9	805.8	827.1
42.5°	432.3	450.2	496.3	547.4	596.0	640.4	683.0	720.5	752.9	779.4	797.3
45°	415.3	434.0	480.1	531.2	579.0	622.5	663.4	698.4	727.3	751.2	766.6
47.5°	396.5	416.1	463.9	513.3	560.2	602.9	642.1	673.6	701.8	722.2	735.9
50°	376.9	398.2	446.0	495.4	541.5	583.2	620.8	649.7	675.3	692.4	705.2
52.5°	357.3	379.4	427.2	476.7	522.7	562.8	598.6	626.7	648.9	664.2	675.3
55°	336.0	360.7	408.4	457.9	502.2	542.3	576.4	602.0	622.5	635.3	645.5
57.5°	313.8	340.2	389.7	439.1	483.5	521.8	554.2	578.1	596.0	607.1	614.8
60°	291.6	319.8	369.2	418.7	462.2	500.5	531.2	553.4	569.6	578.1	584.1
62.5°	268.6	298.4	348.7	398.2	442.5	478.4	507.3	527.8	542.3	549.1	555.1
65°	244.7	276.3	327.4	376.9	421.2	454.5	482.6	501.4	514.2	520.1	523.6
67.5°	220.0	253.2	305.3	354.7	397.4	429.8	456.2	474.9	485.2	490.3	492.9
70°	194.4	229.4	281.4	330.8	371.8	402.5	428.0	445.1	455.3	460.5	461.3
72.5°	170.5	204.6	257.5	305.3	344.5	374.3	398.2	416.1	426.3	430.6	430.6
75°	145.0	179.1	231.1	277.1	314.6	343.6	367.5	384.6	393.9	398.2	398.2
77.5°	122.8	154.3	202.9	247.3	282.2	310.4	333.4	351.3	361.5	365.8	365.8
80°	98.1	128.8	173.9	214.9	247.3	272.9	296.7	315.5	325.7	327.4	324.9
82.5°	75.9	104.0	142.4	179.1	208.9	232.8	256.7	272.0	279.7	281.4	280.5
85°	53.7	76.7	109.1	139.0	163.7	185.9	202.9	217.4	225.1	227.7	229.4
87.5°	31.5	44.3	64.8	87.8	106.6	121.1	131.3	144.1	151.8	156.9	162.0
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°	585.8	585.8	585.8	585.8	585.8	585.8	585.8	585.8
2.5°	590.1	590.9	591.8	591.8	591.8	592.6	591.8	591.8
5°	627.6	632.7	637.0	639.5	642.1	646.3	645.5	646.3
7.5°	674.5	683.0	692.4	697.5	700.9	706.0	707.7	707.7
10°	723.1	735.0	746.1	753.8	758.9	766.6	767.4	768.3
12.5°	769.1	783.6	796.4	804.9	812.6	819.4	822.8	823.7
15°	808.3	826.3	840.8	851.8	859.5	867.2	871.4	873.2
17.5°	843.3	862.1	878.3	891.1	900.4	908.1	913.2	914.9
20°	870.6	891.1	909.0	922.6	933.7	942.2	949.0	950.7
22.5°	892.8	914.1	932.8	948.2	959.3	969.5	975.5	978.0
25°	909.0	932.0	951.6	966.1	978.0	987.4	993.4	995.9
27.5°	918.3	941.4	960.1	974.6	986.6	995.1	1001.1	1003.6
30°	918.3	940.5	959.3	972.9	984.0	992.5	996.8	999.4
32.5°	909.0	930.3	947.3	959.3	969.5	978.0	981.4	983.1
35°	893.6	912.4	927.7	938.0	946.5	954.2	957.6	959.3
37.5°	871.4	888.5	900.4	909.8	916.6	924.3	926.9	928.6
40°	843.3	859.5	868.0	876.6	882.5	889.4	891.1	891.1
42.5°	812.6	826.3	834.8	840.8	845.0	849.3	851.8	851.8
45°	780.2	792.1	798.1	803.2	807.5	810.9	813.5	813.5
47.5°	747.8	757.2	762.3	765.7	769.1	772.5	774.2	774.2
50°	715.4	722.2	726.5	729.0	732.5	735.0	736.7	735.9
52.5°	683.0	688.1	691.5	694.1	695.8	698.4	699.2	700.1
55°	650.6	654.0	656.6	658.3	661.7	664.2	665.1	666.8
57.5°	619.1	620.8	624.2	625.0	628.4	631.0	631.8	632.7
60°	586.6	588.4	590.9	592.6	596.9	598.6	599.4	601.1
62.5°	555.1	556.0	559.4	562.8	566.2	567.9	568.7	569.6
65°	523.6	526.1	528.7	531.2	534.6	537.2	538.0	539.8
67.5°	492.9	494.6	498.0	500.5	503.1	505.6	507.3	508.2
70°	461.3	463.0	465.6	467.3	469.8	472.4	474.9	474.9
72.5°	430.6	430.6	432.3	434.0	436.6	438.3	439.1	439.1
75°	397.4	396.5	398.2	399.1	399.1	399.1	399.9	400.8
77.5°	361.5	358.1	356.4	356.4	357.3	355.6	356.4	357.3
80°	320.6	317.2	316.3	316.3	317.2	316.3	317.2	317.2
82.5°	277.1	277.1	274.6	275.4	276.3	274.6	276.3	278.0
85°	226.8	227.7	226.8	229.4	229.4	229.4	230.2	231.9
87.5°	162.9	168.0	166.3	169.7	168.8	169.7	170.5	173.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)