

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: P183864

Luminaire Tested: **22SR-LD2-29-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183864
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-L840-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER

Light Source: EATON LED 4000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3007.0 lumens
Efficiency: N/A
Efficacy: 128.5 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

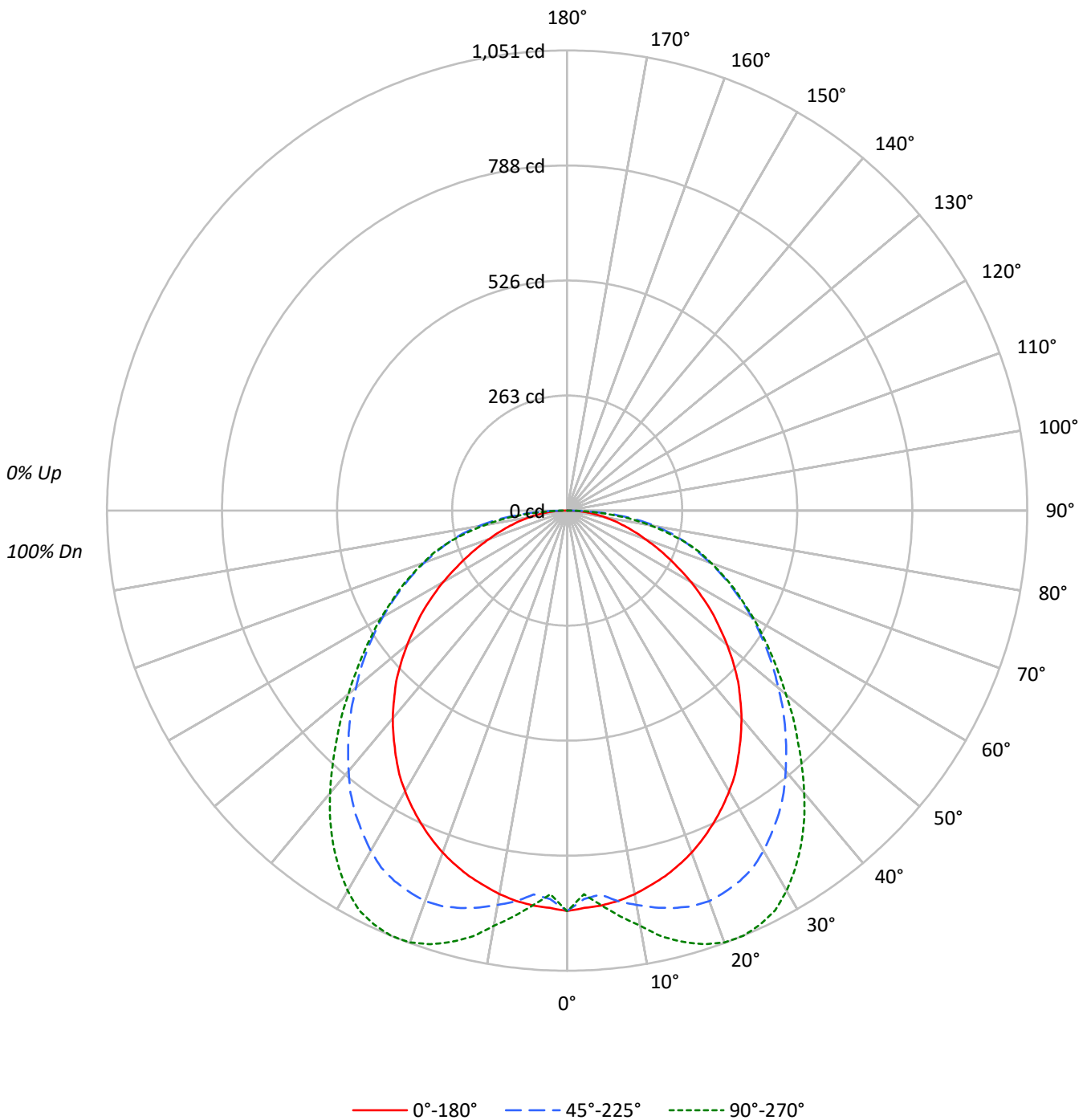
Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2461	2461	2461
5°	2445	2377	2445
10°	2431	2499	2632
15°	2408	2618	2841
20°	2381	2718	3005
25°	2343	2771	3097
30°	2301	2788	3115
35°	2242	2773	3061
40°	2177	2728	2959
45°	2101	2681	2836
50°	1997	2634	2732
55°	1892	2620	2664
60°	1765	2617	2643
65°	1618	2647	2677
70°	1493	2728	2752
75°	1403	2903	2903
80°	1361	3185	2966
85°	1355	3390	2905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.0	2.9
10°-20°	264.0	8.8
20°-30°	421.8	14.0
30°-40°	510.2	17.0
40°-50°	517.5	17.2
50°-60°	466.1	15.5
60°-70°	377.4	12.5
70°-80°	263.3	8.8
80°-90°	100.7	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°	771.8	25.7
0°-40°	1282.0	42.6
0°-60°	2265.6	75.3
0°-90°	3007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	915	915	915	915	915	
5°	905	877	880	902	905	86
15°	864	863	940	1001	1020	244
25°	789	816	933	1018	1043	363
35°	682	717	844	915	932	427
45°	552	598	704	740	745	424
55°	403	475	558	568	568	360
65°	254	353	416	413	420	253
75°	135	235	279	276	279	144
85°	44	97	110	99	94	48
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°	914.6	914.6	914.6	914.6	914.6	914.6	914.6	914.6	914.6	914.6	914.6
2.5°	908.3	909.9	908.3	906.7	905.2	903.6	902.0	898.9	894.2	891.0	887.9
5°	905.2	905.2	898.9	889.5	881.6	876.9	872.2	869.1	870.7	875.4	880.1
7.5°	898.9	895.8	881.6	869.1	862.8	862.8	865.9	876.9	887.9	895.8	900.5
10°	889.5	883.2	862.8	853.4	861.2	867.5	875.4	886.3	892.6	902.0	914.6
12.5°	876.9	867.5	844.0	847.1	862.8	870.7	875.4	884.8	900.5	916.1	928.7
15°	864.4	848.7	828.3	842.4	858.1	862.8	869.1	887.9	905.2	920.9	939.7
17.5°	848.7	828.3	814.2	831.4	845.6	855.0	865.9	884.8	905.2	927.1	947.5
20°	831.4	807.9	800.1	818.9	836.1	847.1	856.5	880.1	903.6	925.6	949.1
22.5°	811.0	782.8	782.8	800.1	822.0	831.4	844.0	870.7	894.2	919.3	942.8
25°	789.1	759.3	762.4	781.2	803.2	815.7	828.3	855.0	883.2	906.7	933.4
27.5°	765.5	734.2	740.4	759.3	779.7	795.4	809.5	837.7	864.4	892.6	919.3
30°	740.4	709.1	713.8	732.6	756.1	771.8	785.9	814.2	842.4	872.2	897.3
32.5°	713.8	682.4	687.1	705.9	731.0	745.2	759.3	787.5	818.9	847.1	870.7
35°	682.4	654.2	658.9	677.7	702.8	716.9	731.0	762.4	790.6	817.3	844.0
37.5°	651.0	624.4	627.5	647.9	674.6	688.7	702.8	732.6	760.8	787.5	812.6
40°	619.7	594.6	599.3	618.1	644.8	657.3	671.4	702.8	731.0	756.1	776.5
42.5°	585.1	564.7	569.5	588.3	613.4	627.5	643.2	671.4	698.1	721.6	740.4
45°	552.2	534.9	538.1	556.9	582.0	597.7	611.8	641.6	666.7	685.5	704.4
47.5°	514.5	500.4	508.3	527.1	552.2	566.3	582.0	610.2	632.2	652.6	668.3
50°	476.9	465.9	475.3	495.7	520.8	538.1	552.2	577.3	599.3	618.1	629.1
52.5°	439.2	434.5	444.0	464.3	491.0	505.1	519.3	545.9	567.9	583.6	594.6
55°	403.2	400.0	412.6	434.5	462.8	475.3	489.4	514.5	534.9	549.1	558.5
57.5°	363.9	365.5	379.6	404.7	431.4	445.5	458.1	481.6	502.0	513.0	522.4
60°	327.9	329.4	348.3	373.4	401.6	415.7	428.3	450.2	467.5	478.5	486.3
62.5°	288.6	298.1	318.5	342.0	370.2	384.3	398.5	418.9	436.1	445.5	450.2
65°	254.1	265.1	288.6	313.7	342.0	353.0	367.1	387.5	401.6	411.0	415.7
67.5°	221.2	235.3	258.8	285.5	312.2	326.3	337.3	356.1	368.7	376.5	381.2
70°	189.8	207.1	232.2	257.3	282.4	294.9	305.9	324.7	335.7	343.6	346.7
72.5°	161.6	178.8	205.5	229.0	252.6	266.7	276.1	293.4	304.3	310.6	312.2
75°	134.9	153.7	177.3	200.8	224.3	235.3	246.3	260.4	271.4	277.7	279.2
77.5°	111.4	128.6	152.2	174.1	194.5	203.9	214.9	229.0	238.4	243.2	244.7
80°	87.8	105.1	125.5	145.9	164.7	171.0	180.4	193.0	203.9	205.5	205.5
82.5°	65.9	81.6	98.8	116.1	131.8	138.0	144.3	155.3	161.6	163.1	161.6
85°	43.9	54.9	67.5	80.0	92.6	97.3	103.5	111.4	111.4	114.5	109.8
87.5°	22.0	26.7	34.5	39.2	47.1	50.2	53.3	54.9	54.9	54.9	53.3
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°	914.6	914.6	914.6	914.6	914.6	914.6	914.6	914.6	914.6	914.6
2.5°	884.8	883.2	880.1	880.1	880.1	878.5	878.5	878.5	876.9	876.9
5°	886.3	891.0	897.3	902.0	902.0	902.0	903.6	903.6	905.2	905.2
7.5°	905.2	909.9	916.1	920.9	924.0	925.6	930.3	931.8	935.0	935.0
10°	927.1	935.0	942.8	947.5	952.2	955.4	956.9	963.2	963.2	963.2
12.5°	941.2	953.8	964.8	975.8	980.5	983.6	988.3	991.4	996.2	996.2
15°	956.9	971.1	983.6	996.2	1000.9	1005.6	1011.8	1016.5	1018.1	1019.7
17.5°	964.8	982.0	996.2	1008.7	1013.4	1018.1	1027.5	1033.8	1036.9	1038.5
20°	967.9	986.7	1004.0	1018.1	1024.4	1029.1	1038.5	1044.8	1049.5	1049.5
22.5°	966.3	985.2	1004.0	1019.7	1026.0	1030.7	1040.1	1046.4	1049.5	1051.1
25°	958.5	977.3	996.2	1011.8	1018.1	1022.8	1032.2	1038.5	1043.2	1043.2
27.5°	942.8	963.2	980.5	996.2	1000.9	1008.7	1016.5	1022.8	1027.5	1029.1
30°	920.9	941.2	960.1	972.6	978.9	983.6	991.4	999.3	1000.9	1002.4
32.5°	894.2	914.6	930.3	942.8	949.1	953.8	961.6	967.9	971.1	969.5
35°	864.4	881.6	897.3	909.9	914.6	917.7	925.6	928.7	931.8	931.8
37.5°	831.4	845.6	861.2	870.7	873.8	876.9	883.2	887.9	887.9	889.5
40°	792.2	807.9	818.9	828.3	831.4	833.0	839.3	840.8	842.4	842.4
42.5°	756.1	768.7	776.5	782.8	785.9	789.1	792.2	792.2	792.2	793.8
45°	716.9	726.3	734.2	738.9	740.4	742.0	743.6	745.2	745.2	745.2
47.5°	679.3	687.1	691.8	696.5	696.5	698.1	698.1	699.7	699.7	699.7
50°	638.5	644.8	647.9	651.0	651.0	651.0	652.6	652.6	652.6	652.6
52.5°	600.8	605.5	607.1	608.7	608.7	610.2	610.2	608.7	610.2	608.7
55°	563.2	566.3	567.9	566.3	567.9	567.9	567.9	566.3	567.9	567.9
57.5°	525.5	527.1	527.1	525.5	527.1	525.5	525.5	527.1	528.7	528.7
60°	487.9	487.9	486.3	486.3	486.3	486.3	486.3	489.4	489.4	491.0
62.5°	451.8	451.8	450.2	448.7	448.7	448.7	450.2	451.8	453.4	453.4
65°	415.7	415.7	414.1	412.6	412.6	412.6	414.1	415.7	417.3	420.4
67.5°	382.8	379.6	379.6	378.1	378.1	378.1	381.2	382.8	384.3	384.3
70°	345.1	345.1	342.0	343.6	343.6	343.6	345.1	346.7	348.3	349.8
72.5°	312.2	310.6	309.0	310.6	310.6	310.6	312.2	315.3	316.9	318.5
75°	279.2	277.7	277.7	276.1	276.1	277.7	277.7	279.2	279.2	279.2
77.5°	244.7	240.0	238.4	235.3	235.3	235.3	235.3	235.3	235.3	235.3
80°	203.9	197.7	193.0	193.0	191.4	191.4	191.4	191.4	189.8	191.4
82.5°	156.9	153.7	149.0	147.5	147.5	147.5	144.3	144.3	144.3	147.5
85°	106.7	105.1	100.4	98.8	98.8	97.3	95.7	95.7	97.3	94.1
87.5°	51.8	50.2	47.1	47.1	47.1	45.5	45.5	43.9	45.5	43.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)