

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: P183858

Luminaire Tested: **22SR-LD2-25-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183858  
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-LD2-25-C-UNV-L835-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X2 TROFFER  
  
Light Source: EATON LED 3500K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2525.0 lumens  
Efficiency: N/A  
Efficacy: 128.8 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

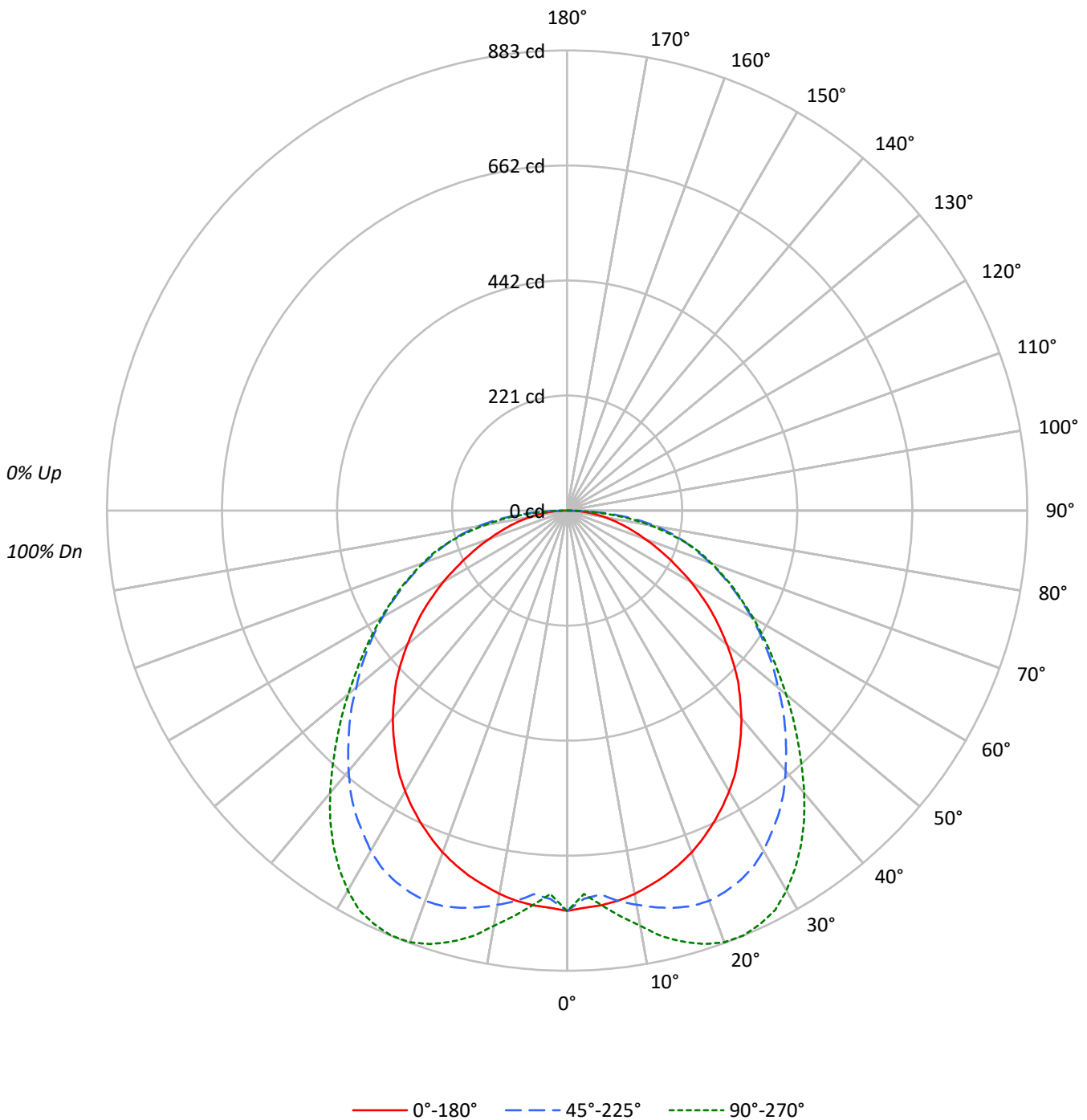
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2067	2067	2067
5°	2053	1996	2053
10°	2041	2099	2210
15°	2022	2198	2385
20°	1999	2282	2524
25°	1967	2327	2601
30°	1932	2341	2616
35°	1882	2328	2571
40°	1828	2291	2485
45°	1765	2251	2381
50°	1677	2211	2294
55°	1588	2200	2237
60°	1482	2198	2219
65°	1359	2223	2248
70°	1254	2290	2312
75°	1178	2438	2438
80°	1144	2675	2490
85°	1139	2847	2439



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.2	2.9
10°-20°	221.7	8.8
20°-30°	354.2	14.0
30°-40°	428.4	17.0
40°-50°	434.6	17.2
50°-60°	391.4	15.5
60°-70°	316.9	12.5
70°-80°	221.1	8.8
80°-90°	84.5	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°	648.1	25.7
0°-40°	1076.5	42.6
0°-60°	1902.5	75.3
0°-90°	2525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2525.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	768	768	768	768	768	
5°	760	736	739	758	760	72
15°	726	724	789	840	856	205
25°	663	685	784	855	876	305
35°	573	602	709	768	782	358
45°	464	502	592	622	626	356
55°	338	399	469	477	477	302
65°	213	296	349	346	353	212
75°	113	198	234	232	234	121
85°	37	82	92	83	79	40
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°	768.0	768.0	768.0	768.0	768.0	768.0	768.0	768.0	768.0	768.0	768.0
2.5°	762.7	764.0	762.7	761.4	760.1	758.8	757.5	754.8	750.9	748.2	745.6
5°	760.1	760.1	754.8	746.9	740.3	736.4	732.4	729.8	731.1	735.1	739.0
7.5°	754.8	752.2	740.3	729.8	724.5	724.5	727.2	736.4	745.6	752.2	756.1
10°	746.9	741.6	724.5	716.6	723.2	728.5	735.1	744.3	749.5	757.5	768.0
12.5°	736.4	728.5	708.7	711.3	724.5	731.1	735.1	743.0	756.1	769.3	779.8
15°	725.8	712.7	695.5	707.4	720.6	724.5	729.8	745.6	760.1	773.3	789.1
17.5°	712.7	695.5	683.7	698.2	710.0	717.9	727.2	743.0	760.1	778.5	795.7
20°	698.2	678.4	671.8	687.6	702.1	711.3	719.2	739.0	758.8	777.2	797.0
22.5°	681.0	657.3	657.3	671.8	690.3	698.2	708.7	731.1	750.9	771.9	791.7
25°	662.6	637.6	640.2	656.0	674.5	685.0	695.5	717.9	741.6	761.4	783.8
27.5°	642.8	616.5	621.8	637.6	654.7	667.9	679.7	703.4	725.8	749.5	771.9
30°	621.8	595.4	599.4	615.2	634.9	648.1	660.0	683.7	707.4	732.4	753.5
32.5°	599.4	573.0	577.0	592.8	613.9	625.7	637.6	661.3	687.6	711.3	731.1
35°	573.0	549.3	553.3	569.1	590.2	602.0	613.9	640.2	663.9	686.3	708.7
37.5°	546.7	524.3	526.9	544.0	566.4	578.3	590.2	615.2	638.9	661.3	682.4
40°	520.3	499.3	503.2	519.0	541.4	552.0	563.8	590.2	613.9	634.9	652.1
42.5°	491.4	474.2	478.2	494.0	515.1	526.9	540.1	563.8	586.2	606.0	621.8
45°	463.7	449.2	451.8	467.6	488.7	501.9	513.7	538.8	559.9	575.7	591.5
47.5°	432.1	420.2	426.8	442.6	463.7	475.5	488.7	512.4	530.9	548.0	561.2
50°	400.5	391.2	399.1	416.3	437.3	451.8	463.7	484.8	503.2	519.0	528.2
52.5°	368.8	364.9	372.8	389.9	412.3	424.2	436.0	458.4	476.9	490.0	499.3
55°	338.5	335.9	346.5	364.9	388.6	399.1	411.0	432.1	449.2	461.1	469.0
57.5°	305.6	306.9	318.8	339.9	362.3	374.1	384.7	404.4	421.5	430.8	438.7
60°	275.3	276.6	292.4	313.5	337.2	349.1	359.6	378.1	392.6	401.8	408.4
62.5°	242.4	250.3	267.4	287.2	310.9	322.7	334.6	351.7	366.2	374.1	378.1
65°	213.4	222.6	242.4	263.5	287.2	296.4	308.2	325.4	337.2	345.1	349.1
67.5°	185.7	197.6	217.4	239.7	262.1	274.0	283.2	299.0	309.6	316.2	320.1
70°	159.4	173.9	195.0	216.0	237.1	247.7	256.9	272.7	281.9	288.5	291.1
72.5°	135.7	150.2	172.6	192.3	212.1	223.9	231.8	246.3	255.6	260.8	262.1
75°	113.3	129.1	148.9	168.6	188.4	197.6	206.8	218.7	227.9	233.2	234.5
77.5°	93.5	108.0	127.8	146.2	163.3	171.2	180.5	192.3	200.2	204.2	205.5
80°	73.8	88.3	105.4	122.5	138.3	143.6	151.5	162.0	171.2	172.6	172.6
82.5°	55.3	68.5	83.0	97.5	110.7	115.9	121.2	130.4	135.7	137.0	135.7
85°	36.9	46.1	56.6	67.2	77.7	81.7	86.9	93.5	93.5	96.2	92.2
87.5°	18.4	22.4	29.0	32.9	39.5	42.2	44.8	46.1	46.1	46.1	44.8
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°	768.0	768.0	768.0	768.0	768.0	768.0	768.0	768.0	768.0	768.0
2.5°	743.0	741.6	739.0	739.0	739.0	737.7	737.7	737.7	736.4	736.4
5°	744.3	748.2	753.5	757.5	757.5	757.5	758.8	758.8	760.1	760.1
7.5°	760.1	764.0	769.3	773.3	775.9	777.2	781.2	782.5	785.1	785.1
10°	778.5	785.1	791.7	795.7	799.6	802.2	803.6	808.8	808.8	808.8
12.5°	790.4	800.9	810.1	819.4	823.3	826.0	829.9	832.5	836.5	836.5
15°	803.6	815.4	826.0	836.5	840.4	844.4	849.7	853.6	854.9	856.2
17.5°	810.1	824.6	836.5	847.0	851.0	854.9	862.8	868.1	870.7	872.1
20°	812.8	828.6	843.1	854.9	860.2	864.2	872.1	877.3	881.3	881.3
22.5°	811.5	827.3	843.1	856.2	861.5	865.5	873.4	878.6	881.3	882.6
25°	804.9	820.7	836.5	849.7	854.9	858.9	866.8	872.1	876.0	876.0
27.5°	791.7	808.8	823.3	836.5	840.4	847.0	853.6	858.9	862.8	864.2
30°	773.3	790.4	806.2	816.7	822.0	826.0	832.5	839.1	840.4	841.8
32.5°	750.9	768.0	781.2	791.7	797.0	800.9	807.5	812.8	815.4	814.1
35°	725.8	740.3	753.5	764.0	768.0	770.6	777.2	779.8	782.5	782.5
37.5°	698.2	710.0	723.2	731.1	733.7	736.4	741.6	745.6	745.6	746.9
40°	665.2	678.4	687.6	695.5	698.2	699.5	704.8	706.1	707.4	707.4
42.5°	634.9	645.5	652.1	657.3	660.0	662.6	665.2	665.2	665.2	666.6
45°	602.0	609.9	616.5	620.5	621.8	623.1	624.4	625.7	625.7	625.7
47.5°	570.4	577.0	580.9	584.9	584.9	586.2	586.2	587.5	587.5	587.5
50°	536.1	541.4	544.0	546.7	546.7	546.7	548.0	548.0	548.0	548.0
52.5°	504.5	508.5	509.8	511.1	511.1	512.4	512.4	511.1	512.4	511.1
55°	472.9	475.5	476.9	475.5	476.9	476.9	476.9	475.5	476.9	476.9
57.5°	441.3	442.6	442.6	441.3	442.6	441.3	441.3	442.6	443.9	443.9
60°	409.7	409.7	408.4	408.4	408.4	408.4	408.4	411.0	411.0	412.3
62.5°	379.4	379.4	378.1	376.7	376.7	376.7	378.1	379.4	380.7	380.7
65°	349.1	349.1	347.8	346.5	346.5	346.5	347.8	349.1	350.4	353.0
67.5°	321.4	318.8	318.8	317.5	317.5	317.5	320.1	321.4	322.7	322.7
70°	289.8	289.8	287.2	288.5	288.5	288.5	289.8	291.1	292.4	293.8
72.5°	262.1	260.8	259.5	260.8	260.8	260.8	262.1	264.8	266.1	267.4
75°	234.5	233.2	233.2	231.8	231.8	233.2	233.2	234.5	234.5	234.5
77.5°	205.5	201.5	200.2	197.6	197.6	197.6	197.6	197.6	197.6	197.6
80°	171.2	166.0	162.0	162.0	160.7	160.7	160.7	160.7	159.4	160.7
82.5°	131.7	129.1	125.1	123.8	123.8	123.8	121.2	121.2	121.2	123.8
85°	89.6	88.3	84.3	83.0	83.0	81.7	80.4	80.4	81.7	79.0
87.5°	43.5	42.2	39.5	39.5	39.5	38.2	38.2	36.9	38.2	36.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)