

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: P183859

Luminaire Tested: **22SR-LD2-25-C-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183859  
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-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: 2575.5 lumens  
Efficiency: N/A  
Efficacy: 131.4 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

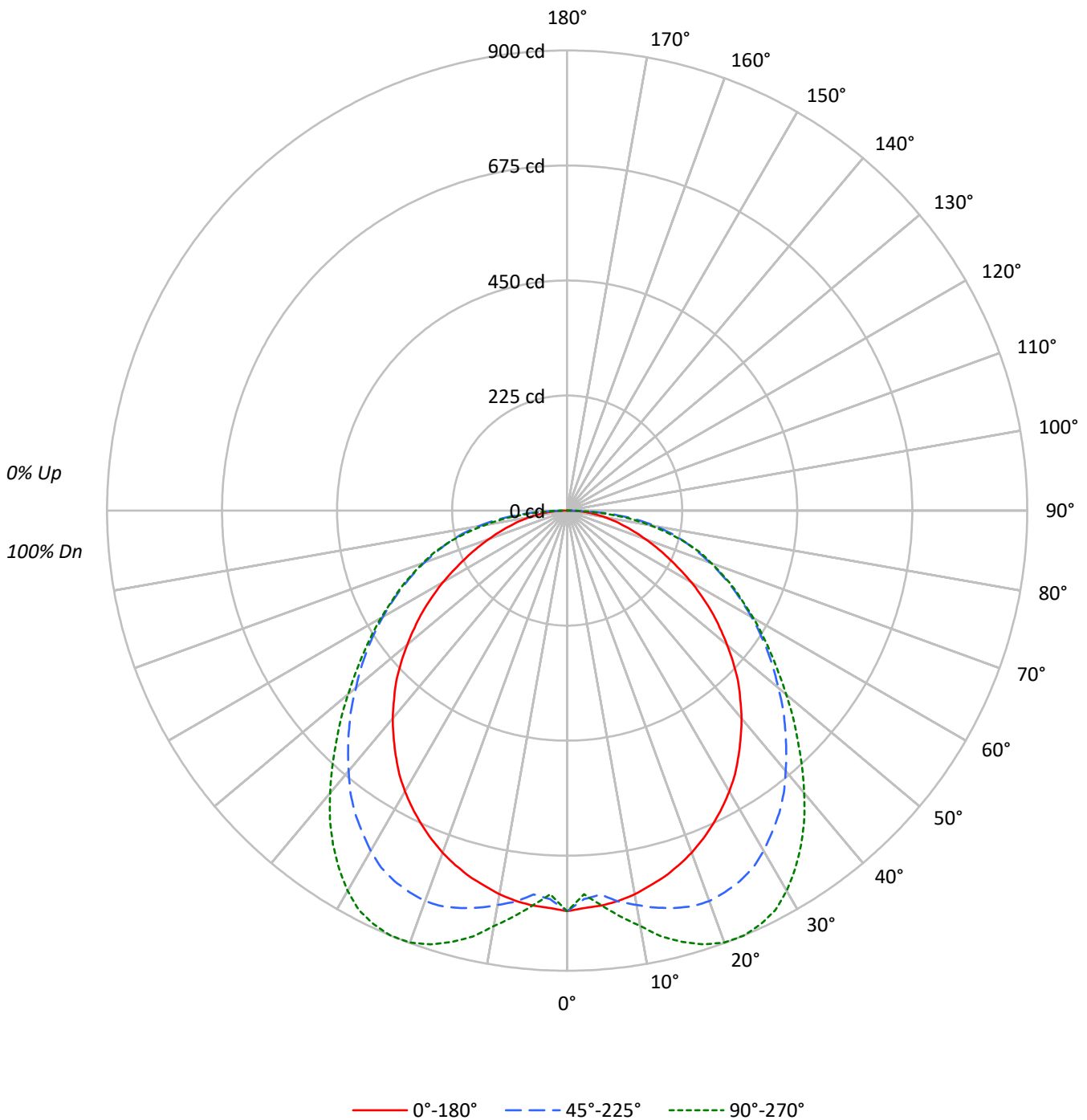
Input Watts (W): 19.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2108	2108	2108
5°	2094	2036	2094
10°	2082	2140	2254
15°	2063	2242	2433
20°	2039	2328	2574
25°	2007	2374	2653
30°	1971	2388	2668
35°	1920	2375	2622
40°	1864	2336	2535
45°	1800	2296	2429
50°	1710	2256	2340
55°	1620	2244	2282
60°	1511	2242	2264
65°	1386	2267	2293
70°	1279	2336	2357
75°	1202	2487	2487
80°	1165	2727	2540
85°	1161	2905	2489



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	2.9
10°-20°	226.1	8.8
20°-30°	361.3	14.0
30°-40°	437.0	17.0
40°-50°	443.3	17.2
50°-60°	399.2	15.5
60°-70°	323.2	12.5
70°-80°	225.6	8.8
80°-90°	86.2	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°	661.1	25.7
0°-40°	1098.0	42.6
0°-60°	1940.5	75.3
0°-90°	2575.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2575.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	783	783	783	783	783	
5°	775	751	754	773	775	74
15°	740	739	805	857	873	209
25°	676	699	800	872	894	311
35°	584	614	723	783	798	366
45°	473	512	603	634	638	364
55°	345	407	478	486	486	308
65°	218	302	356	353	360	217
75°	116	202	239	236	239	124
85°	38	83	94	85	81	41
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°	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3
2.5°	778.0	779.3	778.0	776.6	775.3	773.9	772.6	769.9	765.9	763.2	760.5
5°	775.3	775.3	769.9	761.9	755.1	751.1	747.1	744.4	745.7	749.8	753.8
7.5°	769.9	767.2	755.1	744.4	739.0	739.0	741.7	751.1	760.5	767.2	771.3
10°	761.9	756.5	739.0	730.9	737.7	743.0	749.8	759.2	764.5	772.6	783.3
12.5°	751.1	743.0	722.9	725.6	739.0	745.7	749.8	757.8	771.3	784.7	795.4
15°	740.4	726.9	709.4	721.5	735.0	739.0	744.4	760.5	775.3	788.7	804.8
17.5°	726.9	709.4	697.4	712.1	724.2	732.3	741.7	757.8	775.3	794.1	811.6
20°	712.1	692.0	685.3	701.4	716.2	725.6	733.6	753.8	773.9	792.8	812.9
22.5°	694.7	670.5	670.5	685.3	704.1	712.1	722.9	745.7	765.9	787.4	807.5
25°	675.9	650.3	653.0	669.1	687.9	698.7	709.4	732.3	756.5	776.6	799.5
27.5°	655.7	628.8	634.2	650.3	667.8	681.2	693.3	717.5	740.4	764.5	787.4
30°	634.2	607.3	611.4	627.5	647.6	661.1	673.2	697.4	721.5	747.1	768.6
32.5°	611.4	584.5	588.5	604.6	626.1	638.2	650.3	674.5	701.4	725.6	745.7
35°	584.5	560.3	564.3	580.5	602.0	614.0	626.1	653.0	677.2	700.0	722.9
37.5°	557.6	534.8	537.5	554.9	577.8	589.9	602.0	627.5	651.7	674.5	696.0
40°	530.7	509.2	513.3	529.4	552.2	563.0	575.1	602.0	626.1	647.6	665.1
42.5°	501.2	483.7	487.7	503.9	525.4	537.5	550.9	575.1	597.9	618.1	634.2
45°	473.0	458.2	460.9	477.0	498.5	511.9	524.0	549.6	571.1	587.2	603.3
47.5°	440.7	428.6	435.3	451.5	473.0	485.1	498.5	522.7	541.5	559.0	572.4
50°	408.5	399.1	407.1	424.6	446.1	460.9	473.0	494.5	513.3	529.4	538.8
52.5°	376.2	372.2	380.3	397.7	420.6	432.7	444.7	467.6	486.4	499.8	509.2
55°	345.3	342.6	353.4	372.2	396.4	407.1	419.2	440.7	458.2	470.3	478.3
57.5°	311.7	313.1	325.2	346.7	369.5	381.6	392.3	412.5	430.0	439.4	447.4
60°	280.8	282.2	298.3	319.8	344.0	356.1	366.8	385.6	400.4	409.8	416.5
62.5°	247.2	255.3	272.8	292.9	317.1	329.2	341.3	358.8	373.5	381.6	385.6
65°	217.7	227.1	247.2	268.7	292.9	302.3	314.4	331.9	344.0	352.0	356.1
67.5°	189.5	201.5	221.7	244.5	267.4	279.5	288.9	305.0	315.8	322.5	326.5
70°	162.6	177.4	198.9	220.4	241.9	252.6	262.0	278.1	287.5	294.3	296.9
72.5°	138.4	153.2	176.0	196.2	216.3	228.4	236.5	251.3	260.7	266.0	267.4
75°	115.6	131.7	151.8	172.0	192.1	201.5	211.0	223.0	232.5	237.8	239.2
77.5°	95.4	110.2	130.3	149.1	166.6	174.7	184.1	196.2	204.2	208.3	209.6
80°	75.2	90.0	107.5	125.0	141.1	146.5	154.5	165.3	174.7	176.0	176.0
82.5°	56.4	69.9	84.7	99.4	112.9	118.2	123.6	133.0	138.4	139.7	138.4
85°	37.6	47.0	57.8	68.5	79.3	83.3	88.7	95.4	95.4	98.1	94.1
87.5°	18.8	22.8	29.6	33.6	40.3	43.0	45.7	47.0	47.0	47.0	45.7
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°	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3	783.3
2.5°	757.8	756.5	753.8	753.8	753.8	752.4	752.4	752.4	751.1	751.1
5°	759.2	763.2	768.6	772.6	772.6	772.6	773.9	773.9	775.3	775.3
7.5°	775.3	779.3	784.7	788.7	791.4	792.8	796.8	798.1	800.8	800.8
10°	794.1	800.8	807.5	811.6	815.6	818.3	819.6	825.0	825.0	825.0
12.5°	806.2	816.9	826.3	835.8	839.8	842.5	846.5	849.2	853.2	853.2
15°	819.6	831.7	842.5	853.2	857.2	861.3	866.7	870.7	872.0	873.4
17.5°	826.3	841.1	853.2	864.0	868.0	872.0	880.1	885.5	888.2	889.5
20°	829.0	845.2	859.9	872.0	877.4	881.4	889.5	894.9	898.9	898.9
22.5°	827.7	843.8	859.9	873.4	878.7	882.8	890.8	896.2	898.9	900.2
25°	821.0	837.1	853.2	866.7	872.0	876.1	884.1	889.5	893.5	893.5
27.5°	807.5	825.0	839.8	853.2	857.2	864.0	870.7	876.1	880.1	881.4
30°	788.7	806.2	822.3	833.1	838.4	842.5	849.2	855.9	857.2	858.6
32.5°	765.9	783.3	796.8	807.5	812.9	816.9	823.7	829.0	831.7	830.4
35°	740.4	755.1	768.6	779.3	783.3	786.0	792.8	795.4	798.1	798.1
37.5°	712.1	724.2	737.7	745.7	748.4	751.1	756.5	760.5	760.5	761.9
40°	678.5	692.0	701.4	709.4	712.1	713.5	718.9	720.2	721.5	721.5
42.5°	647.6	658.4	665.1	670.5	673.2	675.9	678.5	678.5	678.5	679.9
45°	614.0	622.1	628.8	632.9	634.2	635.5	636.9	638.2	638.2	638.2
47.5°	581.8	588.5	592.6	596.6	596.6	597.9	597.9	599.3	599.3	599.3
50°	546.9	552.2	554.9	557.6	557.6	557.6	559.0	559.0	559.0	559.0
52.5°	514.6	518.6	520.0	521.3	521.3	522.7	522.7	521.3	522.7	521.3
55°	482.4	485.1	486.4	485.1	486.4	486.4	486.4	485.1	486.4	486.4
57.5°	450.1	451.5	451.5	450.1	451.5	450.1	450.1	451.5	452.8	452.8
60°	417.9	417.9	416.5	416.5	416.5	416.5	416.5	419.2	419.2	420.6
62.5°	387.0	387.0	385.6	384.3	384.3	384.3	385.6	387.0	388.3	388.3
65°	356.1	356.1	354.7	353.4	353.4	353.4	354.7	356.1	357.4	360.1
67.5°	327.9	325.2	325.2	323.8	323.8	323.8	326.5	327.9	329.2	329.2
70°	295.6	295.6	292.9	294.3	294.3	294.3	295.6	296.9	298.3	299.6
72.5°	267.4	266.0	264.7	266.0	266.0	266.0	267.4	270.1	271.4	272.8
75°	239.2	237.8	237.8	236.5	236.5	237.8	237.8	239.2	239.2	239.2
77.5°	209.6	205.6	204.2	201.5	201.5	201.5	201.5	201.5	201.5	201.5
80°	174.7	169.3	165.3	165.3	163.9	163.9	163.9	163.9	162.6	163.9
82.5°	134.4	131.7	127.6	126.3	126.3	126.3	123.6	123.6	123.6	126.3
85°	91.4	90.0	86.0	84.7	84.7	83.3	82.0	82.0	83.3	80.6
87.5°	44.3	43.0	40.3	40.3	40.3	39.0	39.0	37.6	39.0	37.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)