

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: P232280

Luminaire Tested: **22RDIA-30-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232280  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-16-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RDIA-30-UNV-L830-CD1-U  
Description: METALUX 2X2 OVATION LED TROFFER  
AIR VENTED VERSION  
Light Source: (196) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

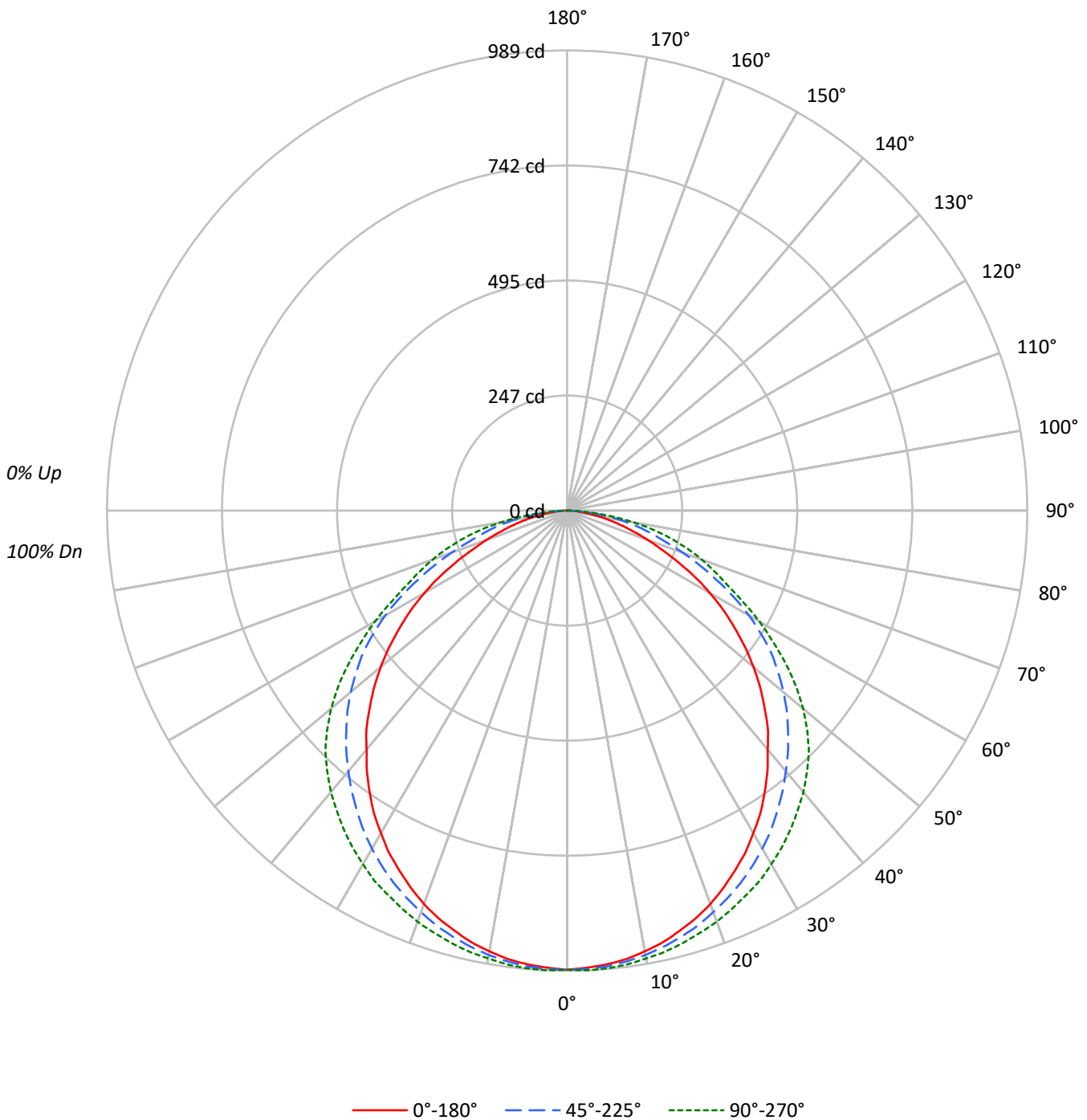
Lumens per Lamp: N/A  
Luminaire Lumens: 2824.0 lumens  
Efficiency: N/A  
Efficacy: 93.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39  
Luminous Opening: Rectangular (W 1.67' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 30.1  
Input Voltage (V): 120  
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	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	82	77	85	80	75		82	77	74		79	75	72	70
3	90	80	71	65	88	78	70	64	75	68	63		72	67	62		70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54		64	58	53		62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46		58	51	46		56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41		52	45	40		51	45	40	38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		36	30	26	24

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

	0°	45°	90°
0°	3187	3187	3187
5°	3173	3187	3201
10°	3154	3180	3206
15°	3125	3170	3216
20°	3092	3156	3232
25°	3041	3145	3247
30°	2985	3129	3272
35°	2916	3105	3299
40°	2826	3082	3329
45°	2740	3066	3356
50°	2626	3049	3326
55°	2473	3019	3228
60°	2288	2919	3085
65°	2024	2722	2913
70°	1739	2501	2906
75°	1478	2308	2868
80°	1196	2139	2656
85°	900	1667	2038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.4	3.3
10°-20°	267.7	9.5
20°-30°	407.0	14.4
30°-40°	493.2	17.5
40°-50°	516.1	18.3
50°-60°	464.7	16.5
60°-70°	339.8	12.0
70°-80°	191.9	6.8
80°-90°	50.2	1.8
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°	768.1	27.2
0°-40°	1261.4	44.7
0°-60°	2242.1	79.4
0°-90°	2824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2824.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	987	987	987	987	987	
5°	979	980	983	986	988	93
15°	935	939	948	958	962	264
25°	853	863	883	904	911	393
35°	740	754	788	823	837	462
45°	600	623	671	716	735	463
55°	439	475	536	566	573	393
65°	265	312	356	378	381	263
75°	118	148	185	218	230	127
85°	24	32	45	51	55	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	986.9	986.9	986.9	986.9	986.9
2.5°	983.3	984.0	986.2	989.0	989.0
5°	979.0	980.5	983.3	986.2	987.6
7.5°	972.6	974.0	977.6	982.6	984.0
10°	961.9	964.8	969.8	975.5	977.6
12.5°	950.5	953.3	959.8	967.6	971.2
15°	934.8	939.1	948.3	958.3	961.9
17.5°	919.1	922.6	934.8	946.9	951.2
20°	899.8	904.1	918.3	934.1	940.5
22.5°	877.6	884.8	901.2	919.8	926.2
25°	853.4	862.6	882.6	904.1	911.2
27.5°	829.1	837.6	861.9	886.2	896.9
30°	800.5	811.9	839.1	866.9	877.6
32.5°	772.7	784.8	814.8	845.5	858.4
35°	739.8	754.1	787.7	822.7	836.9
37.5°	707.0	722.7	760.5	798.4	813.4
40°	670.5	689.8	731.2	773.4	789.8
42.5°	639.1	656.3	702.7	747.0	762.7
45°	599.9	623.4	671.3	716.3	734.8
47.5°	562.7	586.3	640.6	684.8	699.8
50°	522.7	550.6	607.0	650.6	662.0
52.5°	482.0	514.9	572.0	611.3	619.8
55°	439.2	474.9	536.3	566.3	573.4
57.5°	398.5	436.3	494.9	519.9	524.2
60°	354.2	395.6	452.0	471.3	477.7
62.5°	310.6	354.2	404.9	422.0	426.3
65°	264.9	312.1	356.3	377.8	381.3
67.5°	220.7	269.2	309.9	330.6	343.5
70°	184.2	228.5	264.9	293.5	307.8
72.5°	148.5	187.8	219.2	256.4	269.9
75°	118.5	147.8	185.0	217.8	229.9
77.5°	90.7	111.4	150.7	177.8	188.5
80°	64.3	80.7	115.0	136.4	142.8
82.5°	40.7	54.3	78.6	94.3	98.5
85°	24.3	32.1	45.0	51.4	55.0
87.5°	12.9	12.1	14.3	15.0	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)