

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: P232271

Luminaire Tested: **22RDI-30-UNV-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232271  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-10-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22RDI-30-UNV-L850-CD1-U  
Description: METALUX 2X2 OVATION LED TROFFER  
STANDARD VERISON  
Light Source: (196) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

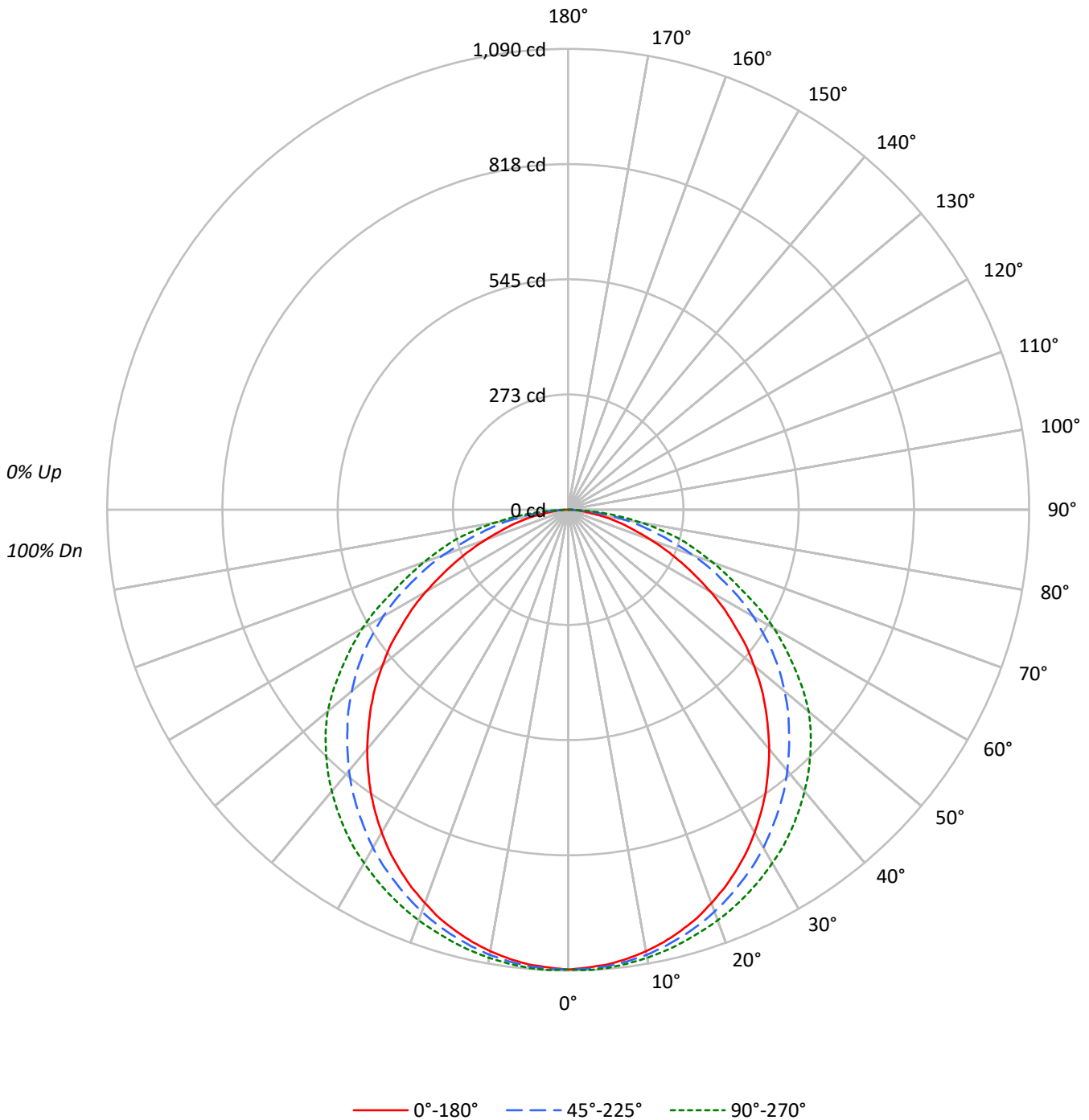
Lumens per Lamp: N/A  
Luminaire Lumens: 3153.0 lumens  
Efficiency: N/A  
Efficacy: 104.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

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

	0°	45°	90°
0°	2927	2927	2927
5°	2916	2927	2938
10°	2898	2921	2941
15°	2871	2909	2946
20°	2835	2898	2960
25°	2794	2881	2977
30°	2740	2870	2999
35°	2675	2849	3027
40°	2597	2831	3054
45°	2509	2810	3083
50°	2399	2795	3108
55°	2259	2771	3064
60°	2093	2720	3028
65°	1874	2609	2900
70°	1628	2471	2855
75°	1406	2249	2887
80°	1144	2095	2707
85°	834	1670	2248



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.9	3.3
10°-20°	294.8	9.4
20°-30°	447.9	14.2
30°-40°	542.9	17.2
40°-50°	568.7	18.0
50°-60°	517.9	16.4
60°-70°	390.8	12.4
70°-80°	225.6	7.2
80°-90°	61.4	1.9
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°	845.7	26.8
0°-40°	1388.5	44.0
0°-60°	2475.2	78.5
0°-90°	3153.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3153.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1080	1080	1084	1087	1088	102
15°	1031	1035	1044	1054	1058	291
25°	941	950	970	994	1002	433
35°	814	831	867	905	921	509
45°	659	684	738	791	810	508
55°	482	521	591	641	653	432
65°	294	343	410	446	456	292
75°	135	170	216	259	278	144
85°	27	36	54	67	73	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1083.6	1084.7	1086.7	1088.8	1089.9
5°	1079.5	1080.5	1083.6	1086.7	1087.8
7.5°	1071.1	1073.2	1077.4	1081.5	1082.6
10°	1060.7	1062.8	1069.1	1074.3	1076.3
12.5°	1047.2	1050.3	1057.6	1064.9	1068.0
15°	1030.6	1034.7	1044.1	1053.5	1057.6
17.5°	1012.9	1017.1	1029.5	1042.0	1046.2
20°	990.0	996.3	1011.9	1027.5	1033.7
22.5°	967.1	973.4	992.1	1011.9	1019.1
25°	941.1	950.5	970.3	994.2	1002.5
27.5°	913.1	923.5	948.4	974.4	984.8
30°	881.9	894.3	923.5	953.6	965.1
32.5°	848.6	863.1	895.4	930.7	945.3
35°	814.3	830.9	867.3	904.7	921.4
37.5°	776.8	795.6	838.2	878.7	896.4
40°	739.4	759.2	806.0	851.7	869.4
42.5°	698.8	722.8	772.7	822.6	841.3
45°	659.3	684.3	738.4	791.4	810.1
47.5°	617.7	644.8	705.1	758.1	777.9
50°	573.0	605.2	667.6	722.8	742.5
52.5°	531.4	564.7	631.2	683.2	699.9
55°	481.5	521.0	590.7	640.6	653.1
57.5°	437.8	477.3	548.0	592.8	608.4
60°	388.9	434.7	505.4	547.0	562.6
62.5°	339.0	388.9	459.7	498.1	511.6
65°	294.3	343.2	409.7	446.1	455.5
67.5°	250.6	300.5	364.0	397.3	407.7
70°	206.9	254.8	314.1	346.3	362.9
72.5°	167.4	213.2	263.1	302.6	318.2
75°	135.2	169.5	216.3	258.9	277.7
77.5°	104.0	131.0	175.7	216.3	226.7
80°	73.8	95.7	135.2	167.4	174.7
82.5°	46.8	65.5	94.6	115.4	124.8
85°	27.0	36.4	54.1	66.6	72.8
87.5°	11.4	15.6	18.7	21.8	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)