

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: P232283

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232283
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-L850-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

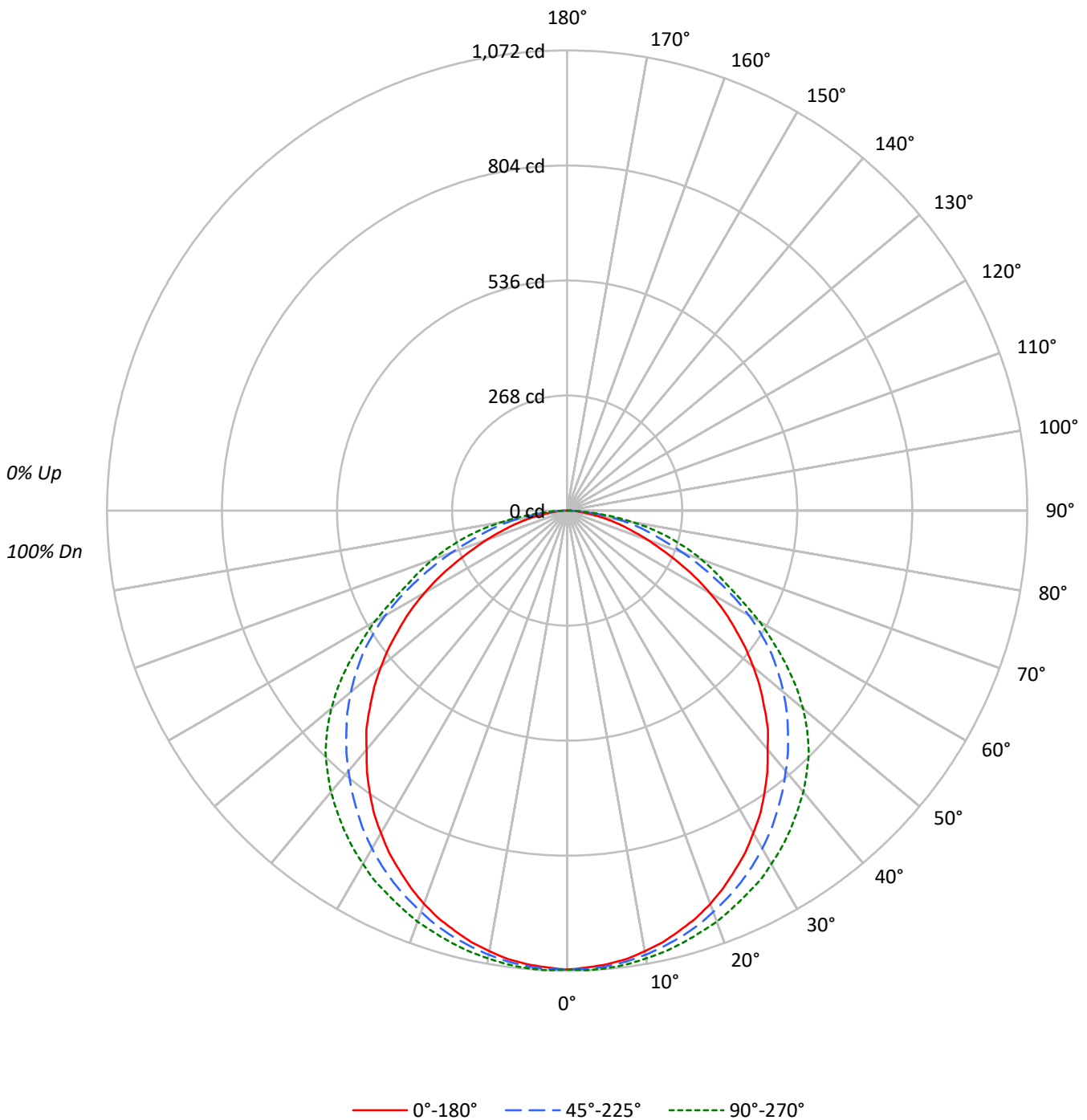
Lumens per Lamp: N/A
Luminaire Lumens: 3060.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 2' x H: 0')
CIE Type: Direct

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°	3453	3453	3453
5°	3439	3454	3469
10°	3418	3446	3473
15°	3386	3435	3484
20°	3351	3420	3502
25°	3295	3408	3518
30°	3234	3390	3546
35°	3160	3365	3575
40°	3063	3340	3608
45°	2968	3322	3636
50°	2845	3304	3604
55°	2679	3272	3498
60°	2479	3163	3343
65°	2194	2950	3157
70°	1885	2711	3149
75°	1602	2500	3109
80°	1294	2317	2879
85°	974	1804	2208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	3.3
10°-20°	290.1	9.5
20°-30°	441.0	14.4
30°-40°	534.4	17.5
40°-50°	559.2	18.3
50°-60°	503.5	16.5
60°-70°	368.2	12.0
70°-80°	208.0	6.8
80°-90°	54.4	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°	832.3	27.2
0°-40°	1366.8	44.7
0°-60°	2429.5	79.4
0°-90°	3060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3060.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1069	1069	1069	1069	1069	
5°	1061	1062	1066	1069	1070	101
15°	1013	1018	1028	1038	1042	286
25°	925	935	956	980	987	426
35°	802	817	854	891	907	501
45°	650	676	727	776	796	501
55°	476	515	581	614	621	426
65°	287	338	386	409	413	285
75°	128	160	200	236	249	138
85°	26	35	49	56	60	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1069.4	1069.4	1069.4	1069.4	1069.4
2.5°	1065.5	1066.3	1068.6	1071.7	1071.7
5°	1060.9	1062.4	1065.5	1068.6	1070.1
7.5°	1053.9	1055.4	1059.3	1064.7	1066.3
10°	1042.3	1045.4	1050.8	1057.0	1059.3
12.5°	1029.9	1033.0	1040.0	1048.5	1052.3
15°	1012.9	1017.5	1027.6	1038.4	1042.3
17.5°	995.9	999.7	1012.9	1026.0	1030.7
20°	975.0	979.6	995.1	1012.1	1019.1
22.5°	951.0	958.7	976.5	996.6	1003.6
25°	924.7	934.7	956.4	979.6	987.3
27.5°	898.4	907.7	934.0	960.3	971.9
30°	867.4	879.8	909.2	939.4	951.0
32.5°	837.2	850.4	882.9	916.2	930.1
35°	801.6	817.1	853.5	891.4	906.9
37.5°	766.0	783.1	824.1	865.1	881.3
40°	726.6	747.5	792.4	838.0	855.8
42.5°	692.5	711.1	761.4	809.4	826.4
45°	650.0	675.5	727.4	776.1	796.2
47.5°	609.7	635.3	694.1	742.1	758.3
50°	566.4	596.6	657.7	704.9	717.3
52.5°	522.3	557.9	619.8	662.4	671.6
55°	475.9	514.6	581.1	613.6	621.3
57.5°	431.8	472.8	536.2	563.3	568.0
60°	383.8	428.7	489.8	510.7	517.7
62.5°	336.6	383.8	438.7	457.3	461.9
65°	287.1	338.1	386.1	409.3	413.2
67.5°	239.1	291.7	335.8	358.3	372.2
70°	199.6	247.6	287.1	318.0	333.5
72.5°	160.9	203.5	237.6	277.8	292.5
75°	128.4	160.2	200.4	236.0	249.2
77.5°	98.3	120.7	163.3	192.7	204.3
80°	69.6	87.4	124.6	147.8	154.8
82.5°	44.1	58.8	85.1	102.1	106.8
85°	26.3	34.8	48.7	55.7	59.6
87.5°	13.9	13.2	15.5	16.2	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)