

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: P232268

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232268
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-L830-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
STANDARD VERISON
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

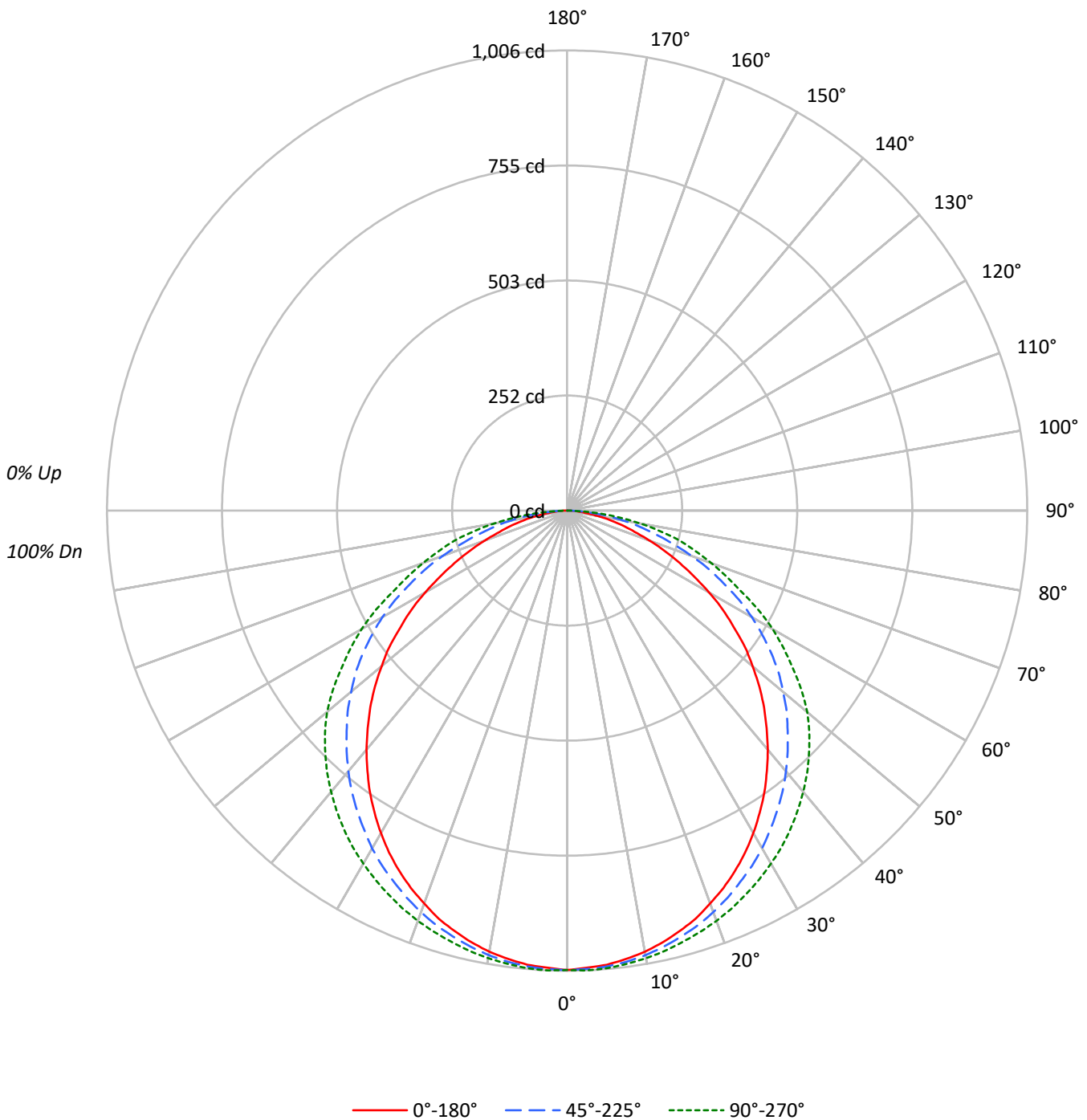
Lumens per Lamp: N/A
Luminaire Lumens: 2911.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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	99	96	106	101	98	94	97	94	91	93	91	88	90	88	86	83
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2703	2703	2703
5°	2692	2702	2713
10°	2676	2697	2715
15°	2651	2686	2720
20°	2617	2675	2733
25°	2580	2660	2748
30°	2530	2649	2769
35°	2470	2630	2795
40°	2398	2614	2820
45°	2316	2594	2846
50°	2215	2581	2870
55°	2085	2558	2829
60°	1933	2511	2795
65°	1730	2409	2677
70°	1504	2282	2637
75°	1298	2076	2666
80°	1057	1934	2500
85°	772	1541	2075



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	3.3
10°-20°	272.2	9.3
20°-30°	413.5	14.2
30°-40°	501.2	17.2
40°-50°	525.0	18.0
50°-60°	478.2	16.4
60°-70°	360.8	12.4
70°-80°	208.3	7.2
80°-90°	56.7	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°	780.7	26.8
0°-40°	1282.0	44.0
0°-60°	2285.2	78.5
0°-90°	2911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	997	998	1000	1003	1004	95
15°	952	955	964	973	976	268
25°	869	878	896	918	926	400
35°	752	767	801	835	851	470
45°	609	632	682	731	748	469
55°	444	481	545	591	603	399
65°	272	317	378	412	420	270
75°	125	156	200	239	256	133
85°	25	34	50	61	67	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004.3	1004.3	1004.3	1004.3	1004.3
2.5°	1000.4	1001.4	1003.3	1005.2	1006.2
5°	996.6	997.6	1000.4	1003.3	1004.3
7.5°	988.9	990.8	994.7	998.5	999.5
10°	979.3	981.2	987.0	991.8	993.7
12.5°	966.8	969.7	976.4	983.2	986.0
15°	951.5	955.3	964.0	972.6	976.4
17.5°	935.2	939.0	950.5	962.0	965.9
20°	914.0	919.8	934.2	948.6	954.4
22.5°	892.9	898.7	916.0	934.2	940.9
25°	868.9	877.5	895.8	917.9	925.6
27.5°	843.0	852.6	875.6	899.6	909.2
30°	814.2	825.7	852.6	880.4	891.0
32.5°	783.5	796.9	826.7	859.3	872.7
35°	751.8	767.1	800.7	835.3	850.7
37.5°	717.2	734.5	773.9	811.3	827.6
40°	682.6	700.9	744.1	786.3	802.7
42.5°	645.2	667.3	713.4	759.5	776.7
45°	608.7	631.8	681.7	730.7	747.9
47.5°	570.3	595.3	651.0	699.9	718.2
50°	529.0	558.8	616.4	667.3	685.5
52.5°	490.6	521.3	582.8	630.8	646.2
55°	444.5	481.0	545.3	591.4	603.0
57.5°	404.2	440.7	506.0	547.3	561.7
60°	359.1	401.3	466.6	505.0	519.4
62.5°	313.0	359.1	424.4	459.9	472.4
65°	271.7	316.8	378.3	411.9	420.5
67.5°	231.4	277.5	336.0	366.8	376.4
70°	191.1	235.2	290.0	319.7	335.1
72.5°	154.6	196.8	242.9	279.4	293.8
75°	124.8	156.5	199.7	239.1	256.4
77.5°	96.0	121.0	162.3	199.7	209.3
80°	68.2	88.3	124.8	154.6	161.3
82.5°	43.2	60.5	87.4	106.6	115.2
85°	25.0	33.6	49.9	61.4	67.2
87.5°	10.6	14.4	17.3	20.2	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)