

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: P232312

Luminaire Tested: **24RDIA-30-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-8-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RDIA-30-UNV-L830-CD1-U
Description: METALUX 2X4 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (392) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

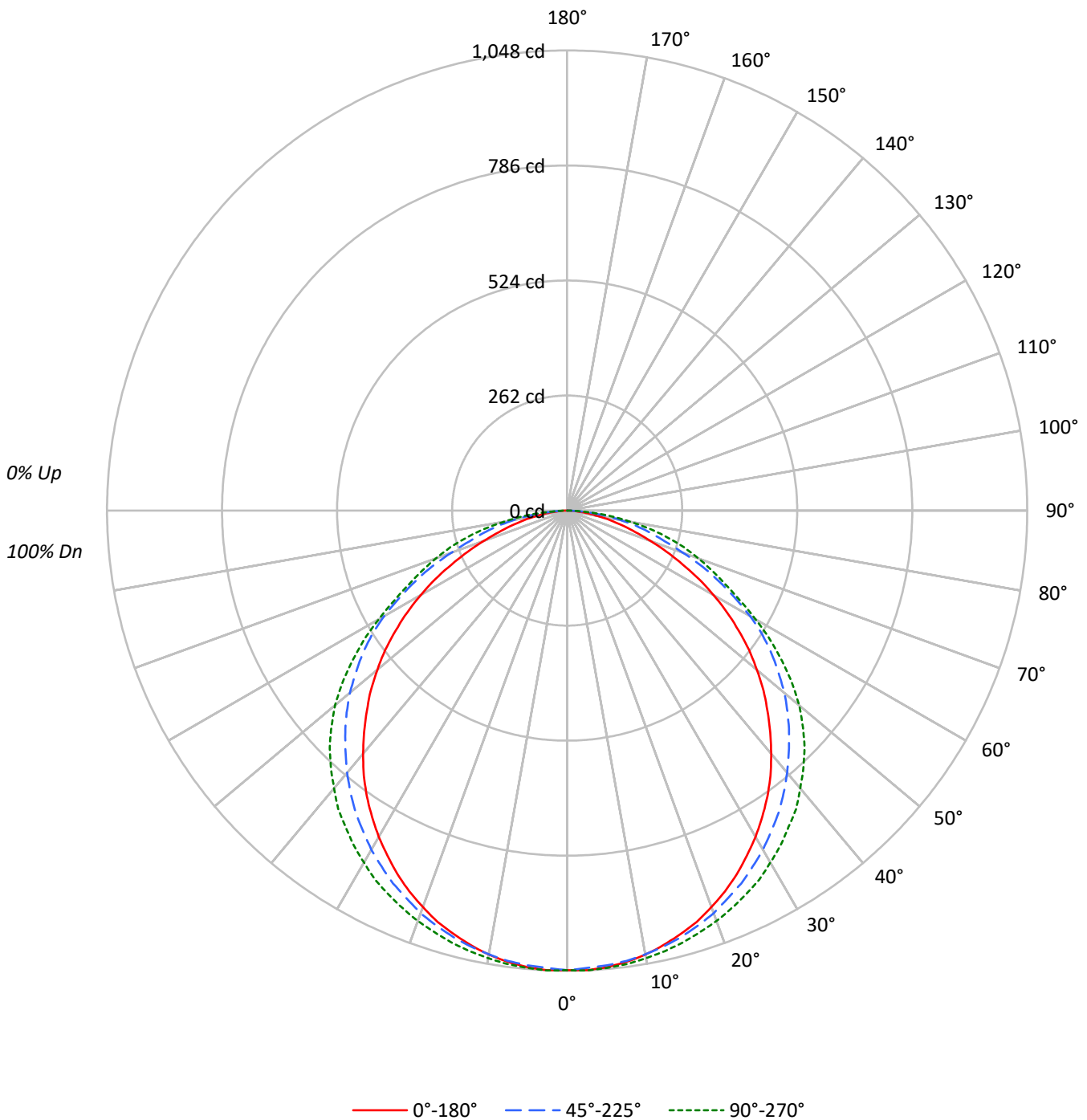
Lumens per Lamp: N/A
Luminaire Lumens: 3003.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 28.7
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	88		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	79	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		50	44	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	28	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°	1690	1690	1690
5°	1692	1685	1694
10°	1684	1683	1697
15°	1669	1680	1702
20°	1651	1676	1709
25°	1628	1670	1717
30°	1600	1663	1726
35°	1567	1655	1733
40°	1524	1643	1740
45°	1473	1632	1746
50°	1417	1622	1733
55°	1342	1601	1681
60°	1245	1554	1601
65°	1109	1459	1518
70°	954	1325	1502
75°	807	1228	1476
80°	656	1141	1345
85°	463	886	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.3
10°-20°	284.3	9.5
20°-30°	432.5	14.4
30°-40°	524.4	17.5
40°-50°	547.6	18.2
50°-60°	493.3	16.4
60°-70°	362.9	12.1
70°-80°	205.5	6.8
80°-90°	53.5	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°	815.8	27.2
0°-40°	1340.2	44.6
0°-60°	2381.1	79.3
0°-90°	3003.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3003.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1044	1042	1040	1044	1045	99
15°	998	1000	1005	1014	1018	282
25°	914	920	937	957	964	421
35°	795	808	840	868	879	497
45°	645	669	715	752	765	498
55°	477	510	569	594	597	426
65°	290	342	382	393	397	289
75°	129	169	197	228	237	139
85°	25	34	48	54	57	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1046.8	1046.8	1046.8	1046.8	1046.8
2.5°	1047.6	1045.4	1042.4	1046.1	1048.3
5°	1043.9	1041.7	1039.5	1043.9	1045.4
7.5°	1036.6	1035.1	1034.4	1039.5	1041.7
10°	1027.0	1025.5	1026.3	1033.6	1035.1
12.5°	1013.8	1014.5	1016.7	1024.8	1027.7
15°	998.4	999.8	1005.0	1014.5	1018.2
17.5°	982.2	982.9	991.0	1002.8	1006.4
20°	960.9	965.3	975.6	989.5	994.7
22.5°	938.9	944.0	955.8	974.1	980.0
25°	913.9	919.8	937.4	957.2	963.8
27.5°	886.0	894.8	914.6	938.1	947.7
30°	858.0	867.6	891.8	916.8	925.6
32.5°	827.2	837.5	865.4	894.0	904.3
35°	794.9	808.1	839.7	868.3	879.4
37.5°	761.1	775.0	810.3	843.4	856.6
40°	722.9	740.5	779.4	814.7	825.7
42.5°	684.7	706.0	747.1	784.6	796.3
45°	645.0	669.2	714.8	752.3	764.7
47.5°	606.8	631.0	681.0	717.7	728.0
50°	564.2	593.6	645.7	681.0	689.8
52.5°	522.3	552.4	606.8	640.6	645.7
55°	476.8	509.8	568.6	594.3	597.3
57.5°	432.0	468.7	527.5	548.0	548.8
60°	385.7	426.1	481.2	495.9	495.9
62.5°	339.4	385.7	431.2	445.9	444.5
65°	290.2	341.6	382.0	393.0	397.4
67.5°	244.6	299.7	333.5	346.0	357.0
70°	202.0	256.4	280.6	306.3	318.1
72.5°	163.1	214.5	233.6	270.3	279.2
75°	129.3	169.0	196.9	227.7	236.6
77.5°	99.9	125.6	160.9	187.3	192.5
80°	70.5	86.7	122.7	141.0	144.7
82.5°	47.0	59.5	85.2	98.4	102.8
85°	25.0	34.5	47.8	54.4	57.3
87.5°	9.6	14.0	16.2	17.6	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)