

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: P232313

Luminaire Tested: **24RDIA-30-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232313
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-L835-CD1-U
Description: METALUX 2X4 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (392) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

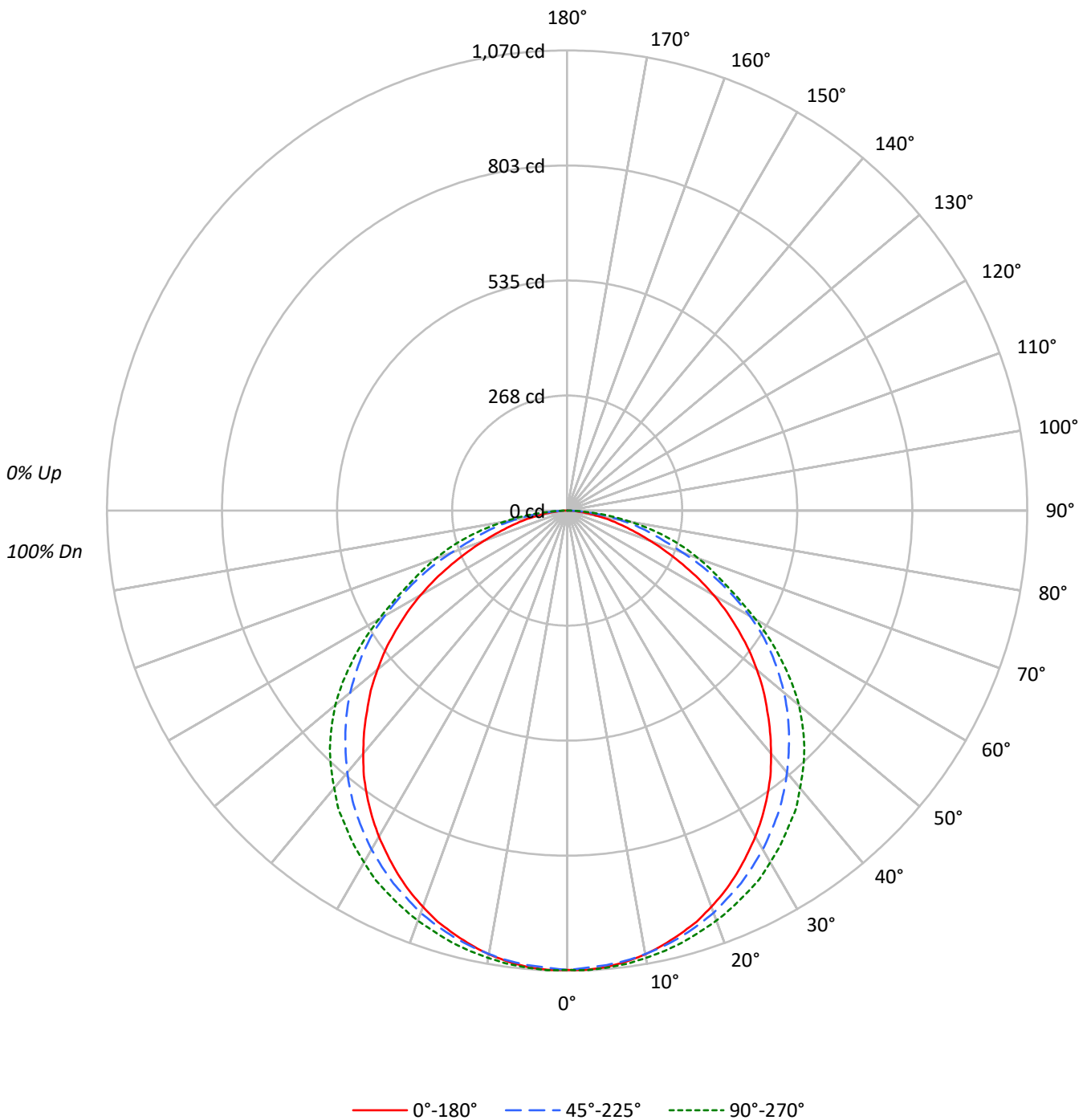
Lumens per Lamp: N/A
Luminaire Lumens: 3064.0 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.31 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

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°	1725	1725	1725
5°	1726	1719	1729
10°	1718	1717	1731
15°	1703	1714	1737
20°	1685	1710	1744
25°	1661	1704	1752
30°	1632	1697	1761
35°	1599	1689	1768
40°	1555	1676	1776
45°	1503	1665	1782
50°	1446	1655	1768
55°	1369	1633	1715
60°	1271	1586	1634
65°	1131	1489	1549
70°	973	1352	1532
75°	823	1253	1506
80°	669	1164	1373
85°	472	902	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.1	3.3
10°-20°	290.0	9.5
20°-30°	441.3	14.4
30°-40°	535.1	17.5
40°-50°	558.7	18.2
50°-60°	503.3	16.4
60°-70°	370.3	12.1
70°-80°	209.6	6.8
80°-90°	54.6	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°	832.4	27.2
0°-40°	1367.5	44.6
0°-60°	2429.5	79.3
0°-90°	3064.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3064.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1065	1063	1061	1065	1067	101
15°	1019	1020	1025	1035	1039	287
25°	932	938	956	977	983	429
35°	811	824	857	886	897	507
45°	658	683	729	768	780	508
55°	486	520	580	606	609	435
65°	296	348	390	401	406	295
75°	132	172	201	232	241	142
85°	26	35	49	56	58	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.1	1068.1	1068.1	1068.1	1068.1
2.5°	1068.9	1066.6	1063.6	1067.4	1069.6
5°	1065.1	1062.9	1060.6	1065.1	1066.6
7.5°	1057.6	1056.1	1055.4	1060.6	1062.9
10°	1047.9	1046.4	1047.1	1054.6	1056.1
12.5°	1034.4	1035.1	1037.4	1045.6	1048.6
15°	1018.6	1020.1	1025.4	1035.1	1038.9
17.5°	1002.2	1002.9	1011.1	1023.1	1026.9
20°	980.4	984.9	995.4	1009.6	1014.9
22.5°	957.9	963.2	975.2	993.9	999.9
25°	932.4	938.4	956.4	976.7	983.4
27.5°	904.0	913.0	933.2	957.2	966.9
30°	875.5	885.2	910.0	935.4	944.4
32.5°	844.0	854.5	883.0	912.2	922.7
35°	811.0	824.5	856.7	886.0	897.2
37.5°	776.5	790.8	826.8	860.5	874.0
40°	737.6	755.5	795.3	831.3	842.5
42.5°	698.6	720.3	762.3	800.5	812.5
45°	658.1	682.8	729.3	767.5	780.3
47.5°	619.1	643.9	694.8	732.3	742.8
50°	575.7	605.6	658.9	694.8	703.8
52.5°	532.9	563.7	619.1	653.6	658.9
55°	486.5	520.2	580.2	606.4	609.4
57.5°	440.7	478.2	538.2	559.2	559.9
60°	393.5	434.7	491.0	505.9	505.9
62.5°	346.3	393.5	440.0	455.0	453.5
65°	296.1	348.5	389.8	401.0	405.5
67.5°	249.6	305.8	340.3	353.0	364.3
70°	206.1	261.6	286.3	312.6	324.6
72.5°	166.4	218.9	238.4	275.8	284.8
75°	131.9	172.4	200.9	232.4	241.4
77.5°	101.9	128.2	164.2	191.1	196.4
80°	72.0	88.4	125.2	143.9	147.7
82.5°	48.0	60.7	86.9	100.4	104.9
85°	25.5	35.2	48.7	55.5	58.5
87.5°	9.7	14.2	16.5	18.0	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)