

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: P232302

Luminaire Tested: **24RDI-30-UNV-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-2-R2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24RDI-30-UNV-L840-CD1-U  
Description: METALUX 2X4 OVATION LED TROFFER  
STANDARD VERISON  
Light Source: (392) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

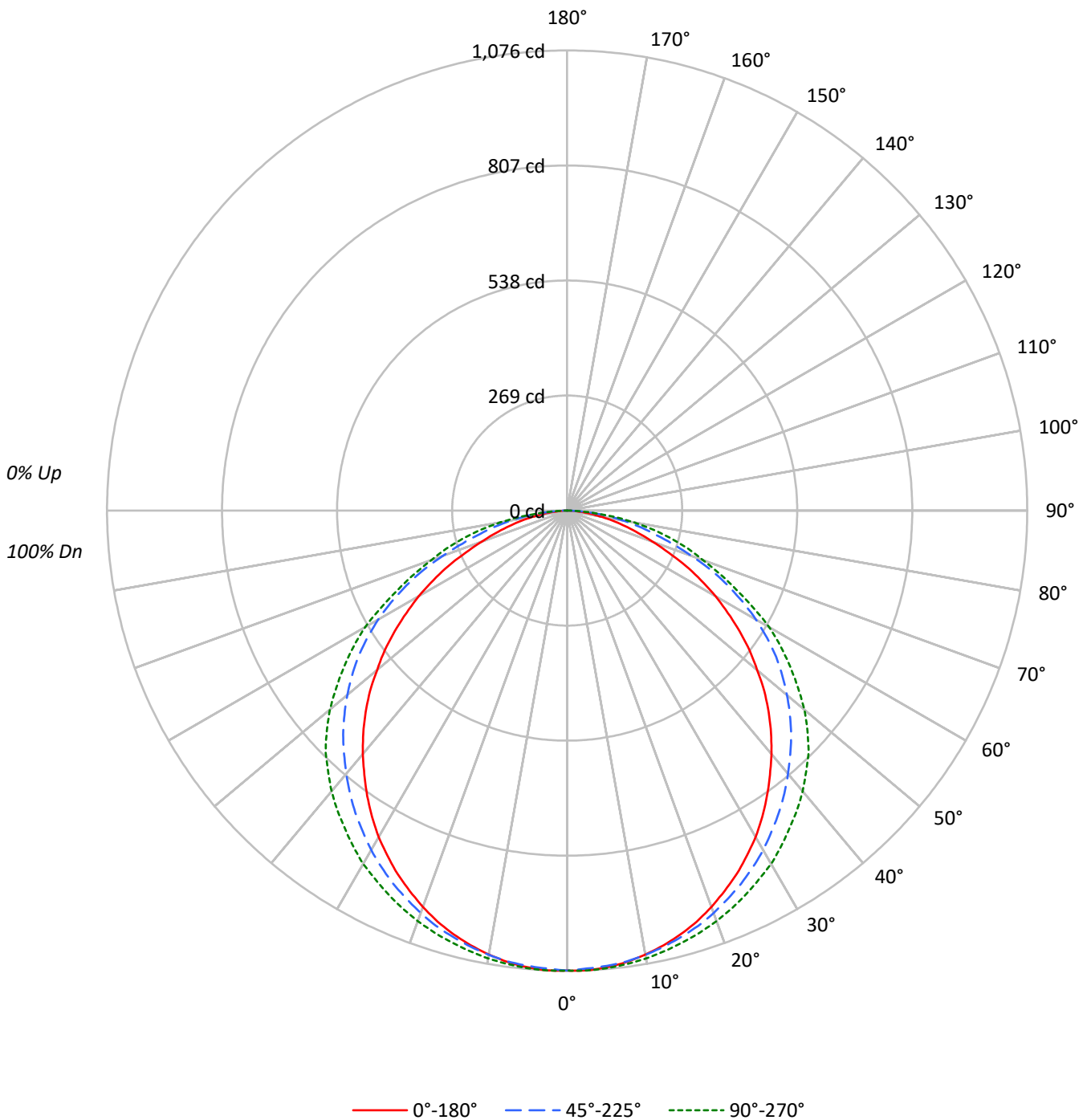
Lumens per Lamp: N/A  
Luminaire Lumens: 3132.0 lumens  
Efficiency: N/A  
Efficacy: 109.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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	99	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	80	75	82	77	73	79	75	72	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°	1447	1447	1447
5°	1448	1443	1451
10°	1440	1441	1453
15°	1429	1438	1456
20°	1412	1434	1462
25°	1393	1429	1470
30°	1370	1424	1482
35°	1339	1418	1489
40°	1305	1411	1505
45°	1268	1410	1520
50°	1214	1405	1515
55°	1155	1399	1494
60°	1078	1372	1469
65°	976	1319	1385
70°	836	1215	1326
75°	727	1093	1307
80°	604	1019	1220
85°	414	790	897



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.8	3.3
10°-20°	291.9	9.3
20°-30°	444.1	14.2
30°-40°	539.6	17.2
40°-50°	567.4	18.1
50°-60°	517.7	16.5
60°-70°	389.8	12.4
70°-80°	221.4	7.1
80°-90°	58.1	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°	837.9	26.8
0°-40°	1377.5	44.0
0°-60°	2462.7	78.6
0°-90°	3132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3132.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1072	1070	1069	1073	1074	102
15°	1026	1028	1032	1042	1045	289
25°	938	945	962	983	990	432
35°	815	830	863	895	907	510
45°	667	689	741	782	799	513
55°	492	531	596	628	637	440
65°	307	357	414	430	435	302
75°	140	184	210	243	252	150
85°	27	40	51	60	58	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1076.4	1074.9	1071.8	1074.9	1076.4
5°	1071.8	1070.3	1068.7	1072.6	1074.1
7.5°	1064.9	1064.2	1063.4	1068.0	1069.5
10°	1054.2	1054.2	1055.0	1061.1	1063.4
12.5°	1041.2	1041.2	1044.3	1051.9	1055.0
15°	1025.9	1027.5	1032.1	1042.0	1045.1
17.5°	1007.6	1010.6	1018.3	1029.8	1034.3
20°	986.2	990.0	1001.5	1016.0	1021.4
22.5°	962.5	969.4	982.4	1000.7	1006.8
25°	938.0	944.9	962.5	983.1	990.0
27.5°	909.7	918.1	940.3	963.3	971.7
30°	881.5	889.1	916.6	943.4	954.1
32.5°	849.3	860.0	889.9	919.7	931.1
35°	814.9	830.2	863.1	895.2	906.7
37.5°	779.0	797.4	834.1	870.0	883.0
40°	743.1	763.7	803.5	841.7	857.0
42.5°	705.6	727.0	772.1	813.4	827.2
45°	666.6	688.8	740.8	782.1	798.9
47.5°	625.3	652.1	706.4	749.2	762.2
50°	580.2	612.4	671.2	712.5	724.0
52.5°	538.2	571.1	634.5	674.3	680.4
55°	492.3	530.6	596.3	627.6	636.8
57.5°	445.7	488.5	554.3	583.3	592.5
60°	400.6	444.2	509.9	536.7	545.8
62.5°	352.4	403.6	463.3	488.5	490.0
65°	306.6	357.0	414.4	429.6	435.0
67.5°	256.9	315.0	365.4	378.4	386.1
70°	212.5	272.2	308.9	330.3	337.1
72.5°	175.1	227.8	256.9	287.4	296.6
75°	139.9	184.2	210.2	243.1	251.5
77.5°	108.6	143.0	172.0	201.1	205.6
80°	78.0	98.6	131.5	153.7	157.5
82.5°	52.0	65.0	93.3	105.5	107.8
85°	26.8	40.5	51.2	59.6	58.1
87.5°	9.9	15.3	17.6	19.9	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)