

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: P232303

Luminaire Tested: **24RDI-30-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232303
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-L850-CD1-U
Description: METALUX 2X4 OVATION LED TROFFER
STANDARD VERISON
Light Source: (392) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

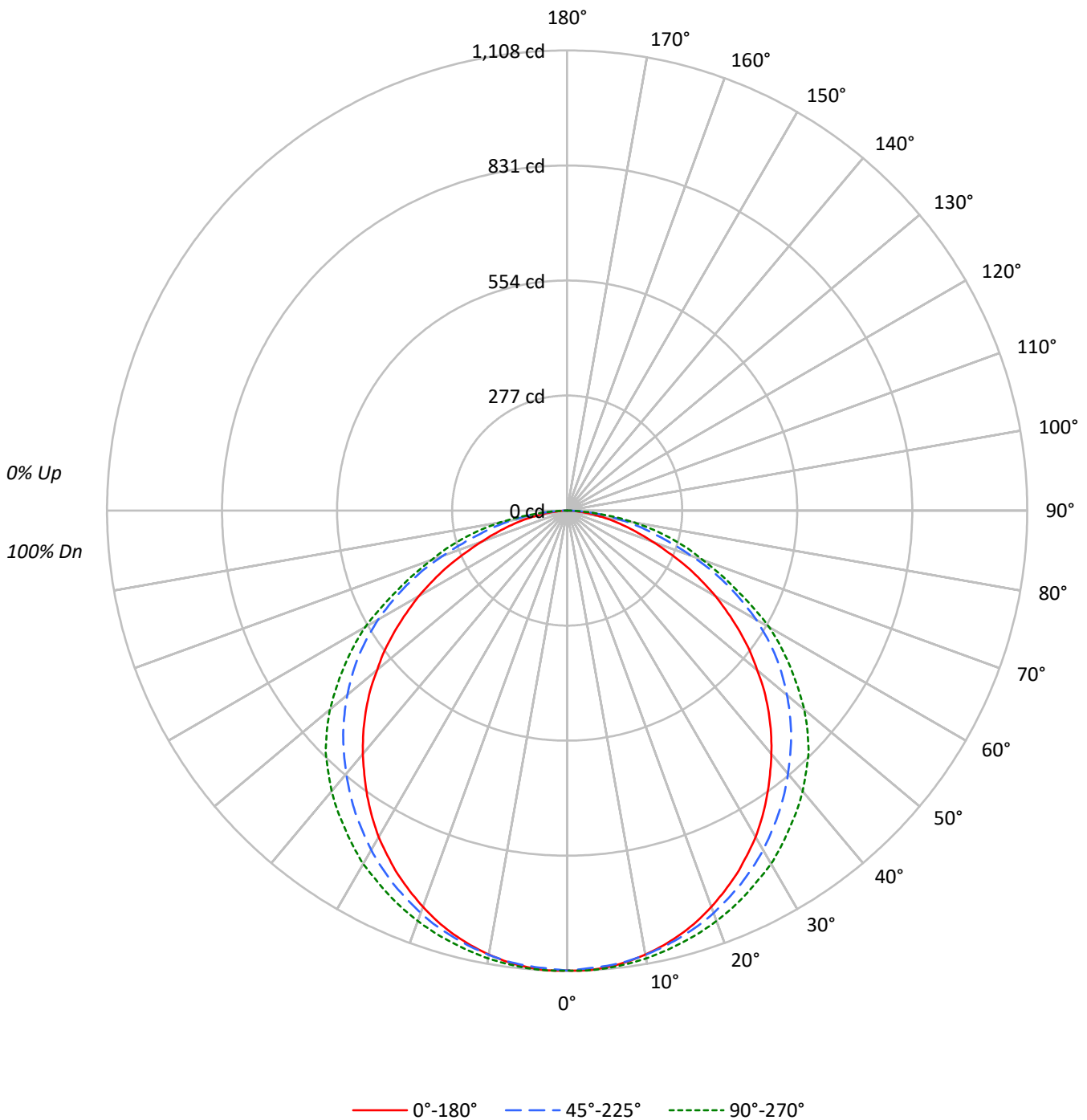
Lumens per Lamp: N/A
Luminaire Lumens: 3225.0 lumens
Efficiency: N/A
Efficacy: 112.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1490	1490	1490
5°	1491	1486	1494
10°	1483	1484	1496
15°	1472	1480	1499
20°	1454	1477	1506
25°	1434	1471	1513
30°	1410	1466	1526
35°	1378	1460	1533
40°	1344	1453	1550
45°	1306	1451	1565
50°	1251	1447	1560
55°	1189	1440	1538
60°	1110	1413	1512
65°	1005	1358	1426
70°	861	1251	1365
75°	749	1125	1346
80°	622	1049	1257
85°	426	814	923



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.3
10°-20°	300.6	9.3
20°-30°	457.3	14.2
30°-40°	555.6	17.2
40°-50°	584.3	18.1
50°-60°	533.1	16.5
60°-70°	401.4	12.4
70°-80°	228.0	7.1
80°-90°	59.8	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°	862.8	26.8
0°-40°	1418.4	44.0
0°-60°	2535.8	78.6
0°-90°	3225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3225.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1108	1108	1108	1108	1108	
5°	1104	1102	1100	1104	1106	105
15°	1056	1058	1063	1073	1076	298
25°	966	973	991	1012	1019	445
35°	839	855	889	922	934	525
45°	686	709	763	805	823	528
55°	507	546	614	646	656	453
65°	316	368	427	442	448	311
75°	144	190	216	250	259	154
85°	28	42	53	61	60	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1107.6	1107.6	1107.6	1107.6	1107.6
2.5°	1108.4	1106.8	1103.6	1106.8	1108.4
5°	1103.6	1102.1	1100.5	1104.4	1106.0
7.5°	1096.5	1095.8	1095.0	1099.7	1101.3
10°	1085.5	1085.5	1086.3	1092.6	1095.0
12.5°	1072.1	1072.1	1075.3	1083.2	1086.3
15°	1056.4	1058.0	1062.7	1072.9	1076.1
17.5°	1037.5	1040.7	1048.5	1060.3	1065.1
20°	1015.5	1019.4	1031.2	1046.2	1051.7
22.5°	991.1	998.2	1011.5	1030.4	1036.7
25°	965.9	973.0	991.1	1012.3	1019.4
27.5°	936.7	945.4	968.2	991.9	1000.5
30°	907.6	915.5	943.8	971.4	982.4
32.5°	874.6	885.6	916.3	947.0	958.8
35°	839.1	854.9	888.7	921.8	933.6
37.5°	802.1	821.0	858.8	895.8	909.2
40°	765.1	786.4	827.3	866.7	882.4
42.5°	726.6	748.6	795.1	837.6	851.7
45°	686.4	709.3	762.8	805.3	822.6
47.5°	643.9	671.5	727.4	771.4	784.8
50°	597.5	630.5	691.1	733.7	745.5
52.5°	554.2	588.0	653.4	694.3	700.6
55°	506.9	546.3	614.0	646.3	655.7
57.5°	458.9	503.0	570.7	600.6	610.1
60°	412.5	457.4	525.1	552.6	562.0
62.5°	362.9	415.6	477.0	503.0	504.6
65°	315.7	367.6	426.7	442.4	447.9
67.5°	264.5	324.3	376.3	389.7	397.5
70°	218.8	280.2	318.0	340.1	347.1
72.5°	180.3	234.6	264.5	296.0	305.4
75°	144.1	189.7	216.5	250.3	259.0
77.5°	111.8	147.2	177.1	207.0	211.8
80°	80.3	101.5	135.4	158.2	162.2
82.5°	53.5	66.9	96.0	108.6	111.0
85°	27.6	41.7	52.7	61.4	59.8
87.5°	10.2	15.7	18.1	20.5	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)