

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: P232275

Luminaire Tested: **22RDI-40-UNV-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232275
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-40-UNV-L850-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
STANDARD VERISON
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

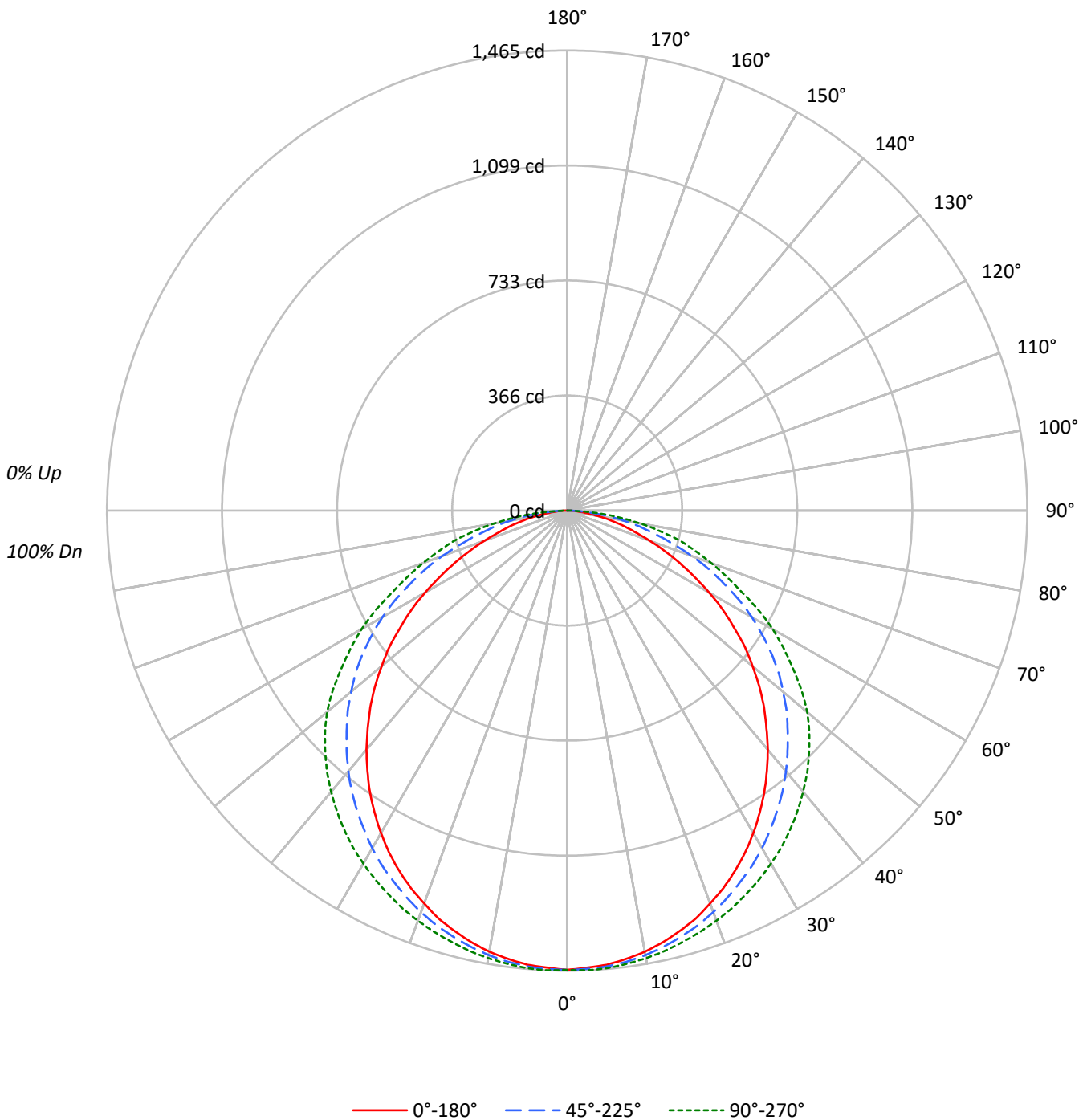
Lumens per Lamp: N/A
Luminaire Lumens: 4239.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.8
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°	3935	3935	3935
5°	3920	3935	3950
10°	3897	3927	3954
15°	3860	3911	3961
20°	3812	3896	3980
25°	3757	3873	4002
30°	3684	3858	4032
35°	3596	3830	4069
40°	3492	3806	4106
45°	3373	3778	4145
50°	3225	3758	4179
55°	3037	3726	4119
60°	2814	3657	4071
65°	2520	3508	3899
70°	2189	3322	3839
75°	1890	3023	3881
80°	1539	2817	3640
85°	1124	2245	3023



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.3
10°-20°	396.3	9.3
20°-30°	602.2	14.2
30°-40°	729.9	17.2
40°-50°	764.6	18.0
50°-60°	696.3	16.4
60°-70°	525.4	12.4
70°-80°	303.4	7.2
80°-90°	82.5	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°	1136.9	26.8
0°-40°	1866.8	44.0
0°-60°	3327.7	78.5
0°-90°	4239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1462	1462	1462	1462	1462	
5°	1451	1453	1457	1461	1462	138
15°	1386	1391	1404	1416	1422	391
25°	1265	1278	1304	1337	1348	583
35°	1095	1117	1166	1216	1239	684
45°	886	920	993	1064	1089	683
55°	647	700	794	861	878	580
65°	396	461	551	600	612	393
75°	182	228	291	348	373	194
85°	36	49	73	90	98	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.4	1462.4	1462.4	1462.4	1462.4
2.5°	1456.8	1458.2	1461.0	1463.8	1465.2
5°	1451.3	1452.7	1456.8	1461.0	1462.4
7.5°	1440.1	1442.9	1448.5	1454.1	1455.5
10°	1426.1	1428.9	1437.3	1444.3	1447.1
12.5°	1407.9	1412.1	1421.9	1431.7	1435.9
15°	1385.5	1391.1	1403.7	1416.3	1421.9
17.5°	1361.8	1367.4	1384.1	1400.9	1406.5
20°	1331.0	1339.4	1360.4	1381.3	1389.7
22.5°	1300.3	1308.6	1333.8	1360.4	1370.2
25°	1265.3	1277.9	1304.5	1336.6	1347.8
27.5°	1227.6	1241.5	1275.1	1310.0	1324.0
30°	1185.6	1202.4	1241.5	1282.1	1297.5
32.5°	1140.9	1160.4	1203.8	1251.3	1270.9
35°	1094.7	1117.1	1166.0	1216.4	1238.7
37.5°	1044.4	1069.6	1126.9	1181.4	1205.2
40°	994.1	1020.6	1083.5	1145.1	1168.8
42.5°	939.5	971.7	1038.8	1105.9	1131.1
45°	886.4	920.0	992.7	1064.0	1089.1
47.5°	830.5	866.8	947.9	1019.2	1045.8
50°	770.4	813.7	897.6	971.7	998.3
52.5°	714.4	759.2	848.7	918.6	940.9
55°	647.3	700.5	794.1	861.2	878.0
57.5°	588.6	641.7	736.8	796.9	817.9
60°	522.9	584.4	679.5	735.4	756.4
62.5°	455.8	522.9	618.0	669.7	687.9
65°	395.7	461.4	550.9	599.8	612.4
67.5°	336.9	404.1	489.3	534.1	548.1
70°	278.2	342.5	422.2	465.6	487.9
72.5°	225.1	286.6	353.7	406.9	427.8
75°	181.8	227.9	290.8	348.1	373.3
77.5°	139.8	176.2	236.3	290.8	304.8
80°	99.3	128.6	181.8	225.1	234.9
82.5°	62.9	88.1	127.2	155.2	167.8
85°	36.4	48.9	72.7	89.5	97.9
87.5°	15.4	21.0	25.2	29.4	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)