

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: P232287

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1706-078-16-R2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RDIA-40-UNV-L850-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (196) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

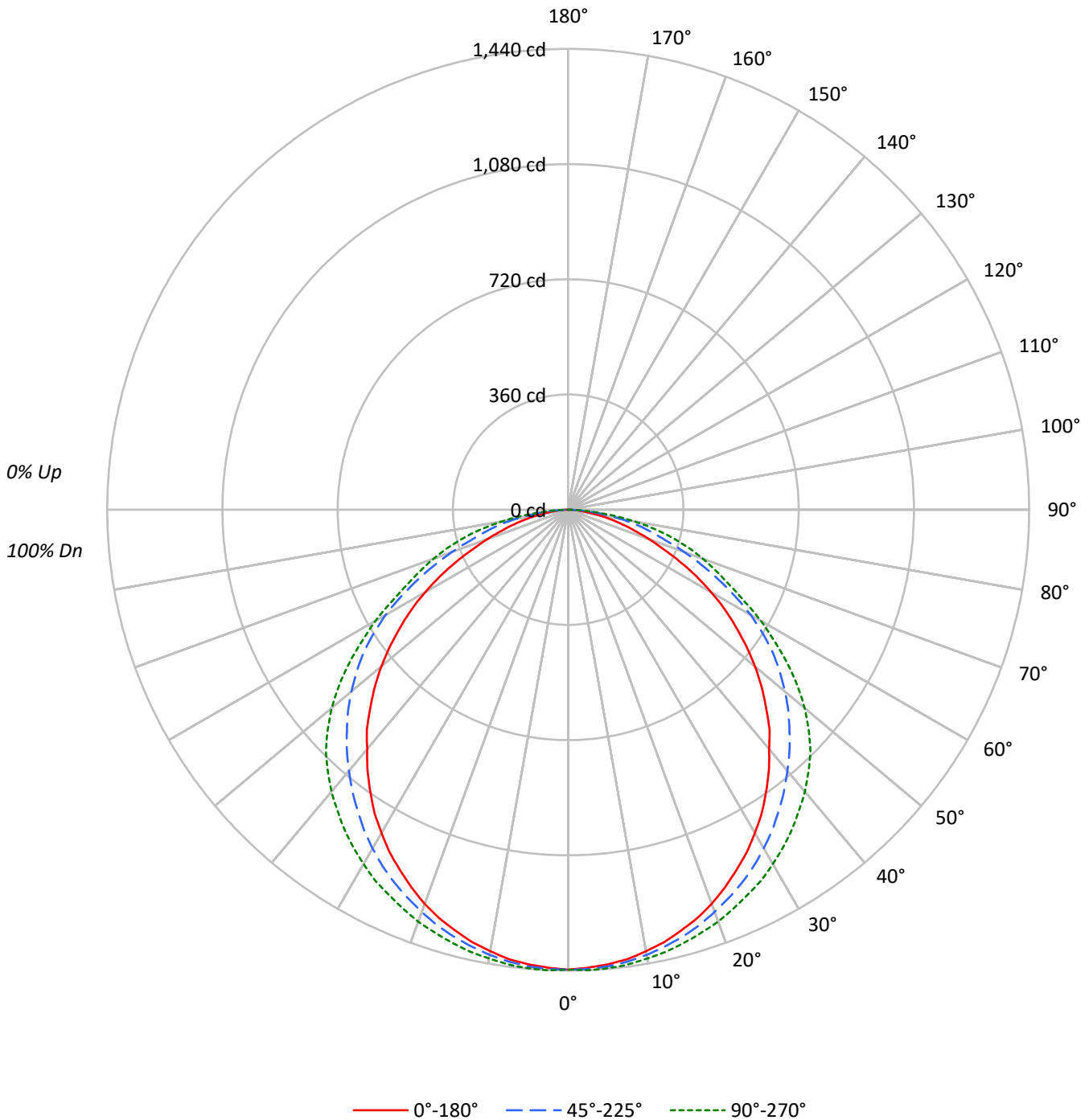
Lumens per Lamp: N/A
Luminaire Lumens: 4113.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 2' x H: 0')
CIE Type: Direct

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	100	96	106	102	98	94	97	94	91	94	91	89	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	80	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	51	45	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	29	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°	4642	4642	4642
5°	4622	4642	4663
10°	4594	4631	4669
15°	4551	4617	4684
20°	4503	4596	4707
25°	4428	4580	4728
30°	4347	4557	4766
35°	4248	4522	4805
40°	4117	4489	4849
45°	3990	4465	4887
50°	3825	4441	4843
55°	3601	4398	4702
60°	3332	4252	4494
65°	2949	3966	4244
70°	2533	3643	4233
75°	2153	3361	4178
80°	1741	3113	3868
85°	1312	2427	2968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	3.3
10°-20°	389.9	9.5
20°-30°	592.7	14.4
30°-40°	718.3	17.5
40°-50°	751.6	18.3
50°-60°	676.8	16.5
60°-70°	494.9	12.0
70°-80°	279.5	6.8
80°-90°	73.1	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°	1118.8	27.2
0°-40°	1837.1	44.7
0°-60°	3265.5	79.4
0°-90°	4113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1426	1428	1432	1436	1438	135
15°	1361	1368	1381	1396	1401	384
25°	1243	1256	1286	1317	1327	573
35°	1078	1098	1147	1198	1219	674
45°	874	908	978	1043	1070	674
55°	640	692	781	825	835	572
65°	386	454	519	550	555	383
75°	173	215	269	317	335	185
85°	35	47	66	75	80	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1437.4	1437.4	1437.4	1437.4	1437.4
2.5°	1432.2	1433.2	1436.3	1440.5	1440.5
5°	1425.9	1428.0	1432.2	1436.3	1438.4
7.5°	1416.6	1418.6	1423.8	1431.1	1433.2
10°	1401.0	1405.1	1412.4	1420.7	1423.8
12.5°	1384.3	1388.5	1397.8	1409.3	1414.5
15°	1361.4	1367.7	1381.2	1395.8	1401.0
17.5°	1338.6	1343.8	1361.4	1379.1	1385.4
20°	1310.5	1316.7	1337.5	1360.4	1369.8
22.5°	1278.2	1288.6	1312.6	1339.6	1349.0
25°	1242.9	1256.4	1285.5	1316.7	1327.1
27.5°	1207.5	1220.0	1255.4	1290.7	1306.3
30°	1165.9	1182.5	1222.1	1262.6	1278.2
32.5°	1125.3	1143.0	1186.7	1231.4	1250.2
35°	1077.5	1098.3	1147.2	1198.1	1218.9
37.5°	1029.7	1052.5	1107.7	1162.8	1184.6
40°	976.6	1004.7	1065.0	1126.4	1150.3
42.5°	930.9	955.8	1023.4	1087.9	1110.8
45°	873.6	908.0	977.7	1043.2	1070.2
47.5°	819.6	853.9	932.9	997.4	1019.3
50°	761.3	801.9	884.0	947.5	964.1
52.5°	702.0	749.9	833.1	890.3	902.8
55°	639.6	691.6	781.1	824.8	835.2
57.5°	580.4	635.5	720.8	757.2	763.4
60°	515.9	576.2	658.4	686.4	695.8
62.5°	452.4	515.9	589.7	614.7	620.9
65°	385.9	454.5	519.0	550.2	555.4
67.5°	321.4	392.1	451.4	481.5	500.3
70°	268.3	332.8	385.9	427.5	448.3
72.5°	216.3	273.5	319.3	373.4	393.1
75°	172.6	215.3	269.4	317.2	334.9
77.5°	132.1	162.2	219.5	259.0	274.6
80°	93.6	117.5	167.4	198.7	208.0
82.5°	59.3	79.0	114.4	137.3	143.5
85°	35.4	46.8	65.5	74.9	80.1
87.5°	18.7	17.7	20.8	21.8	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)