

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: P232284

Luminaire Tested: **22RDIA-40-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232284
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-L830-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (196) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

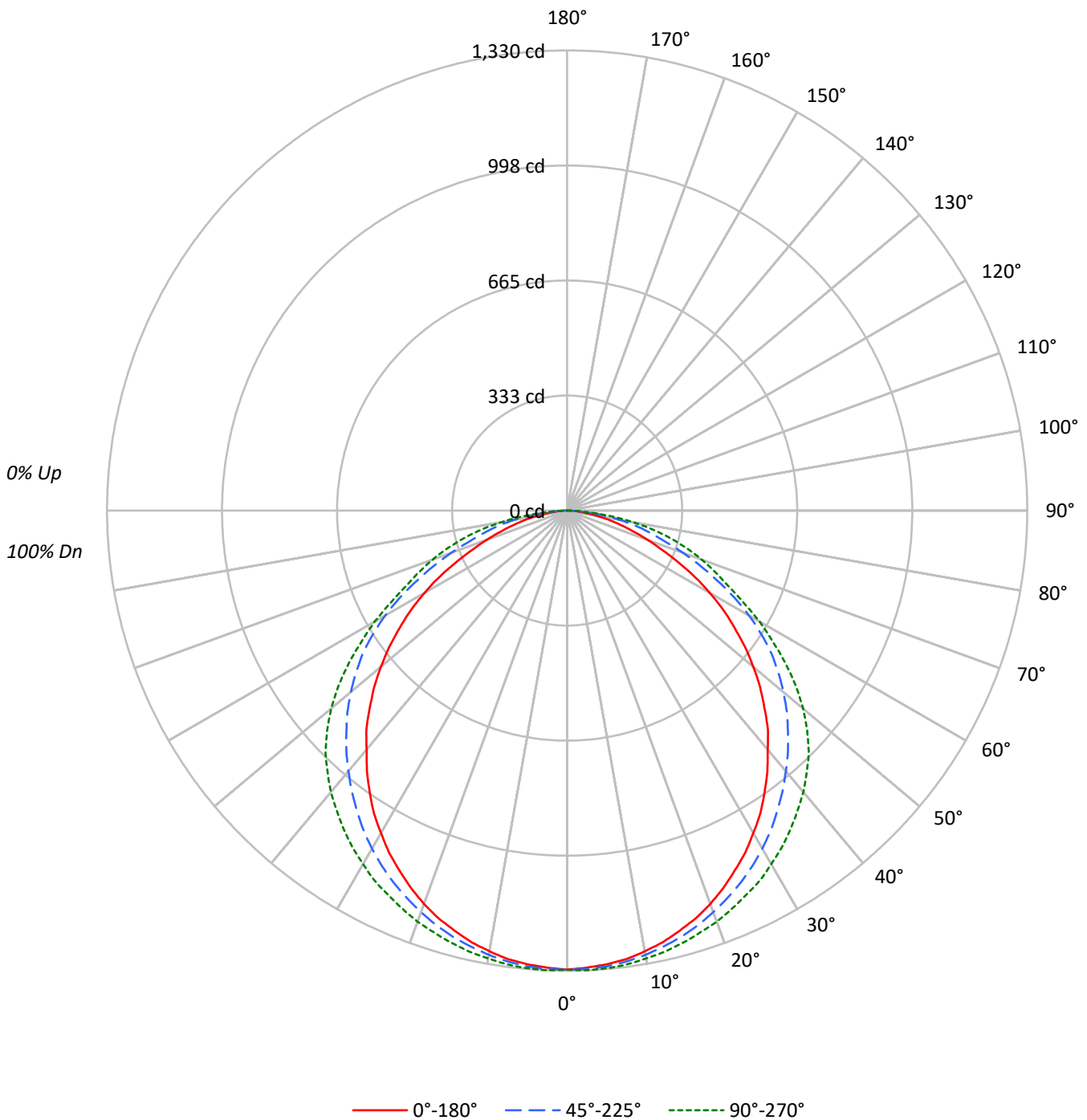
Lumens per Lamp: N/A
Luminaire Lumens: 3797.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 2' x H: 0')
CIE Type: Direct

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°	4285	4285	4285
5°	4267	4286	4304
10°	4241	4275	4310
15°	4202	4263	4324
20°	4157	4243	4345
25°	4088	4228	4365
30°	4013	4207	4400
35°	3921	4175	4436
40°	3801	4145	4476
45°	3683	4121	4512
50°	3531	4100	4472
55°	3324	4060	4341
60°	3075	3925	4148
65°	2722	3661	3917
70°	2339	3363	3907
75°	1989	3103	3858
80°	1607	2875	3570
85°	1208	2242	2738



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.6	3.3
10°-20°	360.0	9.5
20°-30°	547.2	14.4
30°-40°	663.1	17.5
40°-50°	693.9	18.3
50°-60°	624.8	16.5
60°-70°	456.8	12.0
70°-80°	258.0	6.8
80°-90°	67.5	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°	1032.8	27.2
0°-40°	1695.9	44.7
0°-60°	3014.6	79.4
0°-90°	3797.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1316	1318	1322	1326	1328	125
15°	1257	1263	1275	1288	1293	355
25°	1147	1160	1187	1216	1225	529
35°	995	1014	1059	1106	1125	622
45°	806	838	902	963	988	622
55°	590	638	721	761	771	528
65°	356	420	479	508	513	354
75°	159	199	249	293	309	171
85°	33	43	60	69	74	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.9	1326.9	1326.9	1326.9	1326.9
2.5°	1322.1	1323.1	1326.0	1329.8	1329.8
5°	1316.4	1318.3	1322.1	1326.0	1327.9
7.5°	1307.7	1309.6	1314.4	1321.2	1323.1
10°	1293.3	1297.2	1303.9	1311.6	1314.4
12.5°	1278.0	1281.8	1290.4	1301.0	1305.8
15°	1256.8	1262.6	1275.1	1288.5	1293.3
17.5°	1235.7	1240.5	1256.8	1273.2	1278.9
20°	1209.8	1215.6	1234.8	1255.9	1264.5
22.5°	1180.0	1189.6	1211.7	1236.7	1245.3
25°	1147.4	1159.9	1186.7	1215.6	1225.2
27.5°	1114.7	1126.3	1158.9	1191.5	1205.9
30°	1076.3	1091.7	1128.2	1165.6	1180.0
32.5°	1038.9	1055.2	1095.5	1136.8	1154.1
35°	994.7	1013.9	1059.0	1106.1	1125.3
37.5°	950.5	971.7	1022.6	1073.4	1093.6
40°	901.6	927.5	983.2	1039.8	1061.9
42.5°	859.3	882.4	944.8	1004.3	1025.4
45°	806.5	838.2	902.5	963.0	988.0
47.5°	756.6	788.3	861.3	920.8	940.9
50°	702.8	740.3	816.1	874.7	890.1
52.5°	648.1	692.3	769.1	821.9	833.4
55°	590.5	638.5	721.1	761.4	771.0
57.5°	535.8	586.7	665.4	699.0	704.8
60°	476.2	531.9	607.8	633.7	642.3
62.5°	417.7	476.2	544.4	567.4	573.2
65°	356.2	419.6	479.1	507.9	512.7
67.5°	296.7	362.0	416.7	444.6	461.8
70°	247.7	307.2	356.2	394.6	413.8
72.5°	199.7	252.5	294.8	344.7	362.9
75°	159.4	198.8	248.7	292.8	309.2
77.5°	121.9	149.8	202.6	239.1	253.5
80°	86.4	108.5	154.6	183.4	192.0
82.5°	54.7	73.0	105.6	126.7	132.5
85°	32.6	43.2	60.5	69.1	73.9
87.5°	17.3	16.3	19.2	20.2	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)