

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: P232285

Luminaire Tested: **22RDIA-40-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232285
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-L835-CD1-U
Description: METALUX 2X2 OVATION LED TROFFER
AIR VENTED VERSION
Light Source: (196) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

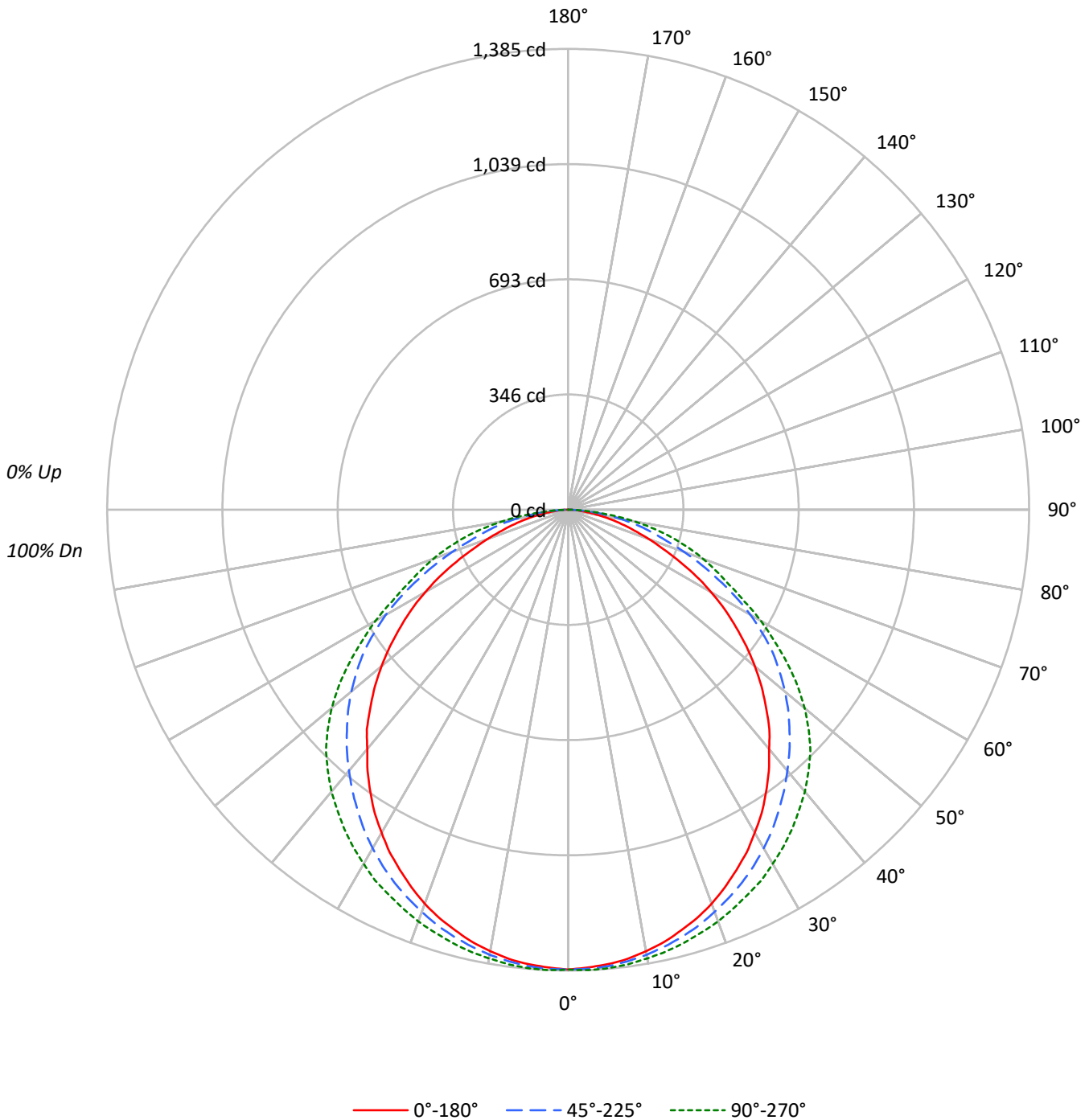
Lumens per Lamp: N/A
Luminaire Lumens: 3955.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 2' x H: 0')
CIE Type: Direct

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



TEST NUMBER: P232285
CATALOG NUMBER: 22RDIA-40-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P232285

CATALOG NUMBER: 22RDIA-40-UNV-L835-CD1-U

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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	91	84	78	96	89	82	77	85	80	75	82	77	74	79	75	72	70					70			
3	90	80	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59					59			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50					50			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43					43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4463	4463	4463
5°	4444	4464	4483
10°	4417	4453	4489
15°	4376	4440	4503
20°	4330	4420	4526
25°	4258	4404	4547
30°	4180	4382	4583
35°	4084	4349	4621
40°	3959	4317	4663
45°	3837	4293	4700
50°	3678	4271	4657
55°	3463	4229	4521
60°	3204	4089	4321
65°	2835	3814	4081
70°	2436	3503	4069
75°	2071	3231	4017
80°	1674	2994	3719
85°	1260	2334	2853



TEST NUMBER: P232285

CATALOG NUMBER: 22RDIA-40-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.9	3.3
10°-20°	374.9	9.5
20°-30°	569.9	14.4
30°-40°	690.7	17.5
40°-50°	722.7	18.3
50°-60°	650.8	16.5
60°-70°	475.8	12.0
70°-80°	268.7	6.8
80°-90°	70.3	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°	1075.7	27.2
0°-40°	1766.5	44.7
0°-60°	3140.1	79.4
0°-90°	3955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3955.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1371	1373	1377	1381	1383	130
15°	1309	1315	1328	1342	1347	369
25°	1195	1208	1236	1266	1276	551
35°	1036	1056	1103	1152	1172	648
45°	840	873	940	1003	1029	648
55°	615	665	751	793	803	550
65°	371	437	499	529	534	369
75°	166	207	259	305	322	178
85°	34	45	63	72	77	42
90°	0	0	0	0	0	



TEST NUMBER: P232285

CATALOG NUMBER: 22RDIA-40-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.1	1382.1	1382.1	1382.1	1382.1
2.5°	1377.1	1378.1	1381.1	1385.1	1385.1
5°	1371.1	1373.1	1377.1	1381.1	1383.1
7.5°	1362.1	1364.1	1369.1	1376.1	1378.1
10°	1347.1	1351.1	1358.1	1366.1	1369.1
12.5°	1331.1	1335.1	1344.1	1355.1	1360.1
15°	1309.1	1315.1	1328.1	1342.1	1347.1
17.5°	1287.1	1292.1	1309.1	1326.1	1332.1
20°	1260.1	1266.1	1286.1	1308.1	1317.1
22.5°	1229.1	1239.1	1262.1	1288.1	1297.1
25°	1195.1	1208.1	1236.1	1266.1	1276.1
27.5°	1161.1	1173.1	1207.1	1241.1	1256.1
30°	1121.1	1137.1	1175.1	1214.1	1229.1
32.5°	1082.1	1099.1	1141.1	1184.1	1202.1
35°	1036.1	1056.1	1103.1	1152.1	1172.1
37.5°	990.1	1012.1	1065.1	1118.1	1139.1
40°	939.1	966.1	1024.1	1083.1	1106.1
42.5°	895.1	919.1	984.1	1046.1	1068.1
45°	840.1	873.1	940.1	1003.1	1029.1
47.5°	788.1	821.1	897.1	959.1	980.1
50°	732.1	771.1	850.1	911.1	927.1
52.5°	675.1	721.1	801.1	856.1	868.1
55°	615.1	665.1	751.1	793.1	803.1
57.5°	558.1	611.1	693.1	728.1	734.1
60°	496.1	554.1	633.1	660.1	669.1
62.5°	435.0	496.1	567.1	591.1	597.1
65°	371.0	437.0	499.1	529.1	534.1
67.5°	309.0	377.0	434.0	463.0	481.1
70°	258.0	320.0	371.0	411.0	431.0
72.5°	208.0	263.0	307.0	359.0	378.0
75°	166.0	207.0	259.0	305.0	322.0
77.5°	127.0	156.0	211.0	249.0	264.0
80°	90.0	113.0	161.0	191.0	200.0
82.5°	57.0	76.0	110.0	132.0	138.0
85°	34.0	45.0	63.0	72.0	77.0
87.5°	18.0	17.0	20.0	21.0	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)