

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: P232300

Luminaire Tested: **24RDI-30-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P232300  
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-L830-CD1-U  
Description: METALUX 2X4 OVATION LED TROFFER  
STANDARD VERISON  
Light Source: (392) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

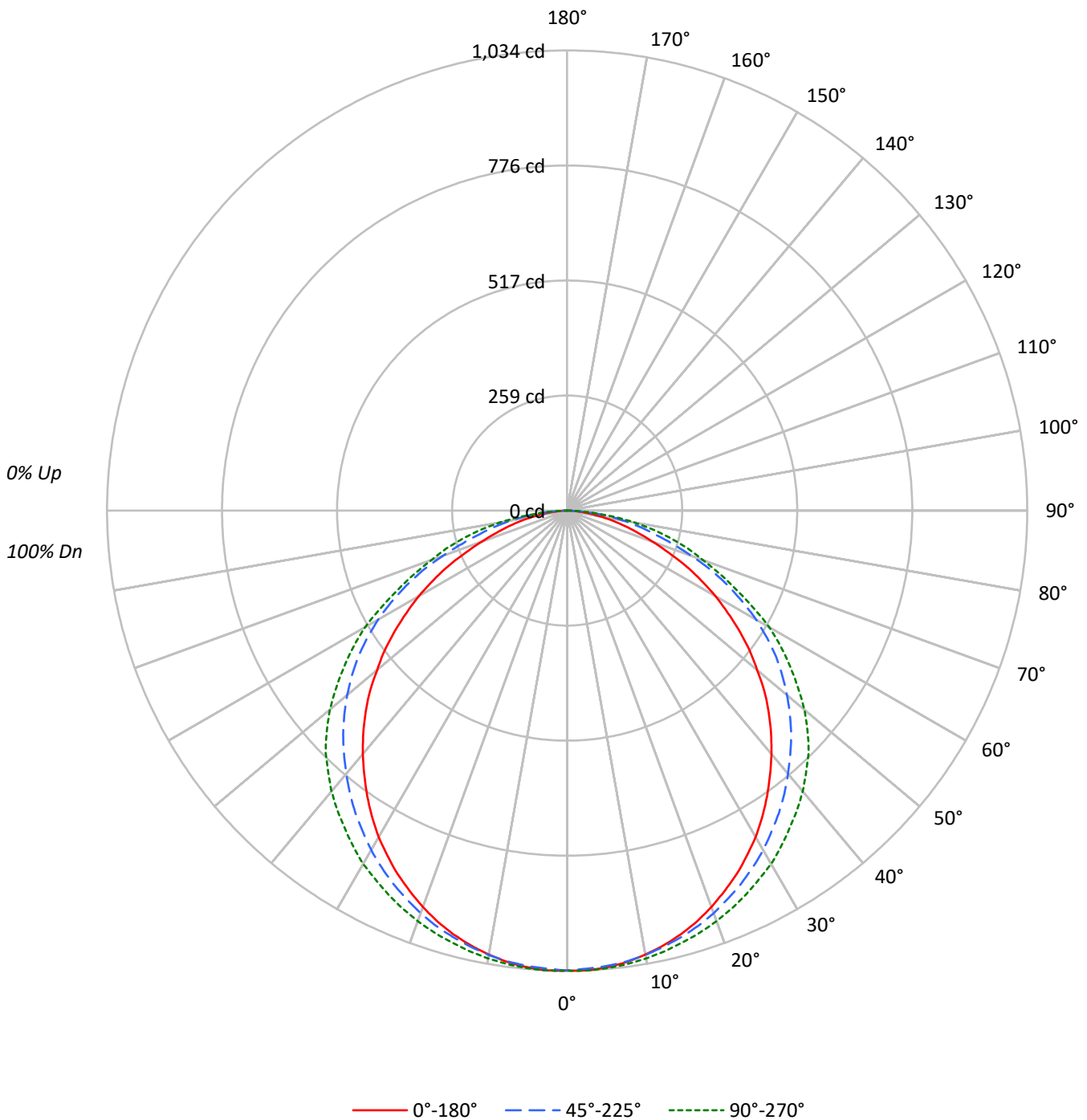
Lumens per Lamp: N/A  
Luminaire Lumens: 3010.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

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



TEST NUMBER: P232300  
CATALOG NUMBER: 24RDI-30-UNV-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P232300

CATALOG NUMBER: 24RDI-30-UNV-L830-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	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°	1391	1391	1391
5°	1391	1387	1394
10°	1384	1385	1396
15°	1373	1382	1399
20°	1357	1378	1405
25°	1338	1373	1412
30°	1316	1369	1425
35°	1286	1362	1431
40°	1254	1356	1447
45°	1219	1355	1461
50°	1167	1350	1456
55°	1110	1344	1436
60°	1036	1319	1412
65°	938	1268	1331
70°	803	1168	1275
75°	699	1050	1256
80°	580	979	1172
85°	397	760	861



TEST NUMBER: P232300

CATALOG NUMBER: 24RDI-30-UNV-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.9	3.3
10°-20°	280.6	9.3
20°-30°	426.8	14.2
30°-40°	518.6	17.2
40°-50°	545.3	18.1
50°-60°	497.6	16.5
60°-70°	374.6	12.4
70°-80°	212.8	7.1
80°-90°	55.8	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°	805.3	26.8
0°-40°	1323.9	44.0
0°-60°	2366.8	78.6
0°-90°	3010.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1034	1034	1034	1034	1034	
5°	1030	1029	1027	1031	1032	98
15°	986	987	992	1001	1004	278
25°	902	908	925	945	951	415
35°	783	798	830	860	871	490
45°	641	662	712	752	768	493
55°	473	510	573	603	612	422
65°	295	343	398	413	418	290
75°	134	177	202	234	242	144
85°	26	39	49	57	56	33
90°	0	0	0	0	0	



TEST NUMBER: P232300

CATALOG NUMBER: 24RDI-30-UNV-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1033.7	1033.7	1033.7	1033.7	1033.7
2.5°	1034.5	1033.0	1030.1	1033.0	1034.5
5°	1030.1	1028.6	1027.1	1030.8	1032.3
7.5°	1023.4	1022.7	1022.0	1026.4	1027.9
10°	1013.2	1013.2	1013.9	1019.8	1022.0
12.5°	1000.7	1000.7	1003.6	1011.0	1013.9
15°	986.0	987.4	991.9	1001.4	1004.3
17.5°	968.3	971.3	978.6	989.6	994.1
20°	947.8	951.4	962.5	976.4	981.6
22.5°	925.0	931.6	944.1	961.7	967.6
25°	901.5	908.1	925.0	944.8	951.4
27.5°	874.3	882.4	903.7	925.7	933.8
30°	847.1	854.5	880.9	906.6	916.9
32.5°	816.3	826.5	855.2	883.9	894.9
35°	783.2	797.9	829.5	860.3	871.4
37.5°	748.7	766.3	801.6	836.1	848.6
40°	714.1	734.0	772.2	808.9	823.6
42.5°	678.1	698.7	742.1	781.7	795.0
45°	640.7	662.0	711.9	751.6	767.8
47.5°	601.0	626.7	678.9	720.0	732.5
50°	557.6	588.5	645.1	684.7	695.8
52.5°	517.2	548.8	609.8	648.0	653.9
55°	473.2	509.9	573.1	603.2	612.0
57.5°	428.3	469.5	532.7	560.6	569.4
60°	385.0	426.9	490.0	515.8	524.6
62.5°	338.7	387.9	445.2	469.5	470.9
65°	294.6	343.1	398.2	412.9	418.0
67.5°	246.9	302.7	351.2	363.7	371.0
70°	204.2	261.6	296.8	317.4	324.0
72.5°	168.2	218.9	246.9	276.2	285.1
75°	134.5	177.1	202.0	233.6	241.7
77.5°	104.3	137.4	165.3	193.2	197.6
80°	74.9	94.8	126.4	147.7	151.3
82.5°	50.0	62.4	89.6	101.4	103.6
85°	25.7	38.9	49.2	57.3	55.8
87.5°	9.6	14.7	16.9	19.1	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)