

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: P232304

Luminaire Tested: **24RDI-40-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232304
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-40-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

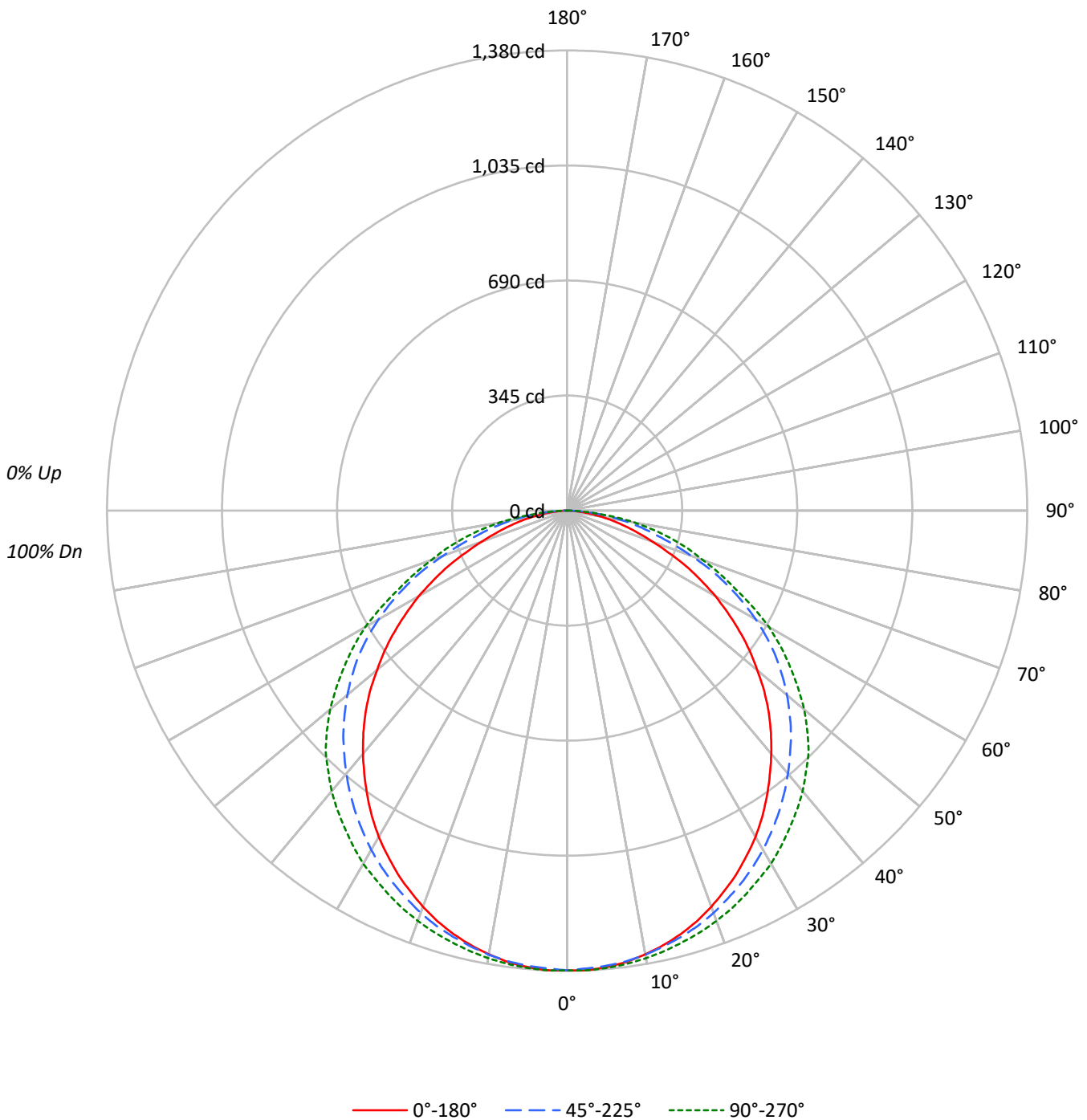
Lumens per Lamp: N/A
Luminaire Lumens: 4015.0 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 40
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	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°	1855	1855	1855
5°	1856	1850	1860
10°	1846	1848	1862
15°	1832	1843	1866
20°	1810	1838	1875
25°	1785	1832	1884
30°	1756	1826	1900
35°	1716	1817	1909
40°	1673	1809	1930
45°	1626	1807	1949
50°	1557	1801	1943
55°	1480	1793	1915
60°	1382	1759	1883
65°	1251	1691	1775
70°	1072	1557	1700
75°	932	1401	1676
80°	775	1306	1564
85°	530	1014	1150



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.5	3.3
10°-20°	374.3	9.3
20°-30°	569.3	14.2
30°-40°	691.8	17.2
40°-50°	727.4	18.1
50°-60°	663.7	16.5
60°-70°	499.7	12.4
70°-80°	283.8	7.1
80°-90°	74.5	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°	1074.1	26.8
0°-40°	1765.9	44.0
0°-60°	3157.0	78.6
0°-90°	4015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1374	1372	1370	1375	1377	130
15°	1315	1317	1323	1336	1340	371
25°	1202	1211	1234	1260	1269	554
35°	1045	1064	1106	1148	1162	653
45°	855	883	950	1003	1024	658
55°	631	680	764	805	816	563
65°	393	458	531	551	558	387
75°	179	236	270	312	322	192
85°	34	52	66	76	74	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.9	1378.9	1378.9	1378.9	1378.9
2.5°	1379.9	1377.9	1374.0	1377.9	1379.9
5°	1374.0	1372.0	1370.1	1375.0	1376.9
7.5°	1365.2	1364.2	1363.2	1369.1	1371.0
10°	1351.4	1351.4	1352.4	1360.3	1363.2
12.5°	1334.8	1334.8	1338.7	1348.5	1352.4
15°	1315.2	1317.1	1323.0	1335.8	1339.7
17.5°	1291.7	1295.6	1305.4	1320.1	1326.0
20°	1264.2	1269.1	1283.8	1302.4	1309.3
22.5°	1233.8	1242.7	1259.3	1282.8	1290.7
25°	1202.5	1211.3	1233.8	1260.3	1269.1
27.5°	1166.2	1177.0	1205.4	1234.8	1245.6
30°	1130.0	1139.8	1175.0	1209.3	1223.1
32.5°	1088.8	1102.5	1140.7	1179.0	1193.7
35°	1044.7	1064.3	1106.4	1147.6	1162.3
37.5°	998.6	1022.2	1069.2	1115.3	1131.9
40°	952.6	979.0	1030.0	1079.0	1098.6
42.5°	904.6	932.0	989.8	1042.7	1060.4
45°	854.6	883.0	949.6	1002.6	1024.1
47.5°	801.7	836.0	905.5	960.4	977.1
50°	743.8	785.0	860.5	913.4	928.1
52.5°	689.9	732.1	813.4	864.4	872.2
55°	631.1	680.1	764.4	804.6	816.4
57.5°	571.3	626.2	710.5	747.8	759.5
60°	513.5	569.4	653.7	688.0	699.7
62.5°	451.8	517.4	593.9	626.2	628.2
65°	393.0	457.7	531.2	550.8	557.6
67.5°	329.3	403.8	468.4	485.1	494.9
70°	272.4	348.9	395.9	423.4	432.2
72.5°	224.4	292.0	329.3	368.5	380.2
75°	179.3	236.2	269.5	311.6	322.4
77.5°	139.2	183.3	220.5	257.7	263.6
80°	100.0	126.4	168.6	197.0	201.9
82.5°	66.6	83.3	119.6	135.2	138.2
85°	34.3	51.9	65.7	76.4	74.5
87.5°	12.7	19.6	22.5	25.5	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)