

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: P232308

Luminaire Tested: **24RDI-50-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P232308
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-50-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: 4966.0 lumens
Efficiency: N/A
Efficacy: 98.7 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

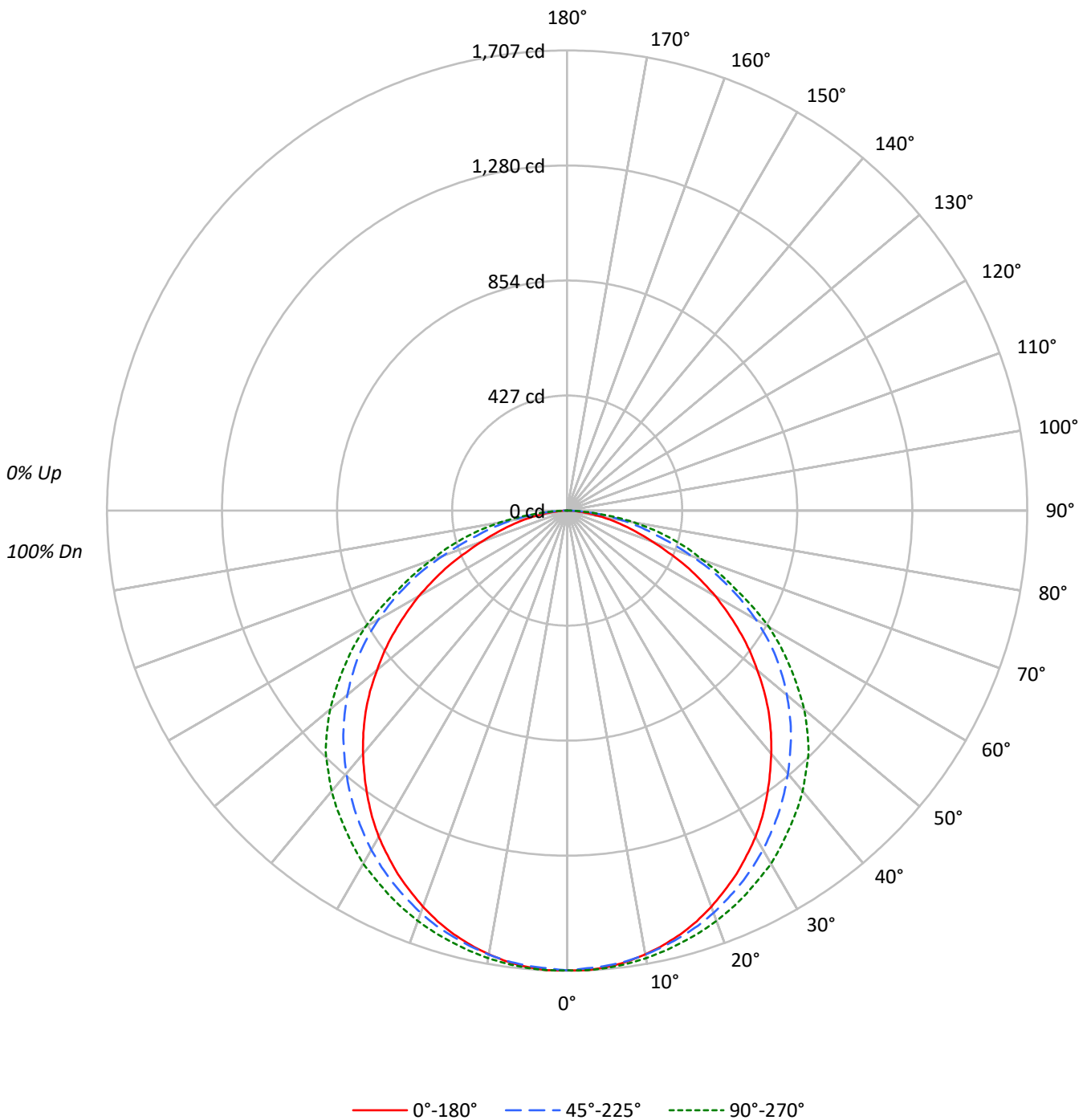
Input Watts (W): 50.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2295	2295	2295
5°	2295	2289	2300
10°	2284	2285	2304
15°	2266	2279	2308
20°	2239	2274	2319
25°	2208	2266	2330
30°	2171	2258	2350
35°	2122	2248	2361
40°	2069	2238	2387
45°	2011	2235	2410
50°	1926	2228	2403
55°	1831	2218	2369
60°	1709	2176	2329
65°	1548	2092	2196
70°	1326	1926	2103
75°	1153	1733	2073
80°	958	1616	1935
85°	655	1254	1422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	3.3
10°-20°	462.9	9.3
20°-30°	704.2	14.2
30°-40°	855.6	17.2
40°-50°	899.7	18.1
50°-60°	820.9	16.5
60°-70°	618.1	12.4
70°-80°	351.0	7.1
80°-90°	92.1	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°	1328.5	26.8
0°-40°	2184.1	44.0
0°-60°	3904.7	78.6
0°-90°	4966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1706	1706	1706	1706	1706	
5°	1699	1697	1695	1701	1703	161
15°	1627	1629	1636	1652	1657	459
25°	1487	1498	1526	1559	1570	685
35°	1292	1316	1368	1419	1438	808
45°	1057	1092	1175	1240	1267	814
55°	781	841	946	995	1010	697
65°	486	566	657	681	690	479
75°	222	292	333	386	399	238
85°	42	64	81	94	92	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1705.5	1705.5	1705.5	1705.5	1705.5
2.5°	1706.7	1704.3	1699.4	1704.3	1706.7
5°	1699.4	1697.0	1694.6	1700.6	1703.1
7.5°	1688.5	1687.3	1686.1	1693.4	1695.8
10°	1671.5	1671.5	1672.8	1682.5	1686.1
12.5°	1650.9	1650.9	1655.8	1667.9	1672.8
15°	1626.7	1629.1	1636.4	1652.2	1657.0
17.5°	1597.6	1602.5	1614.6	1632.8	1640.0
20°	1563.7	1569.7	1587.9	1610.9	1619.4
22.5°	1526.1	1537.0	1557.6	1586.7	1596.4
25°	1487.3	1498.2	1526.1	1558.8	1569.7
27.5°	1442.4	1455.8	1490.9	1527.3	1540.6
30°	1397.6	1409.7	1453.4	1495.8	1512.8
32.5°	1346.7	1363.7	1410.9	1458.2	1476.4
35°	1292.1	1316.4	1368.5	1419.4	1437.6
37.5°	1235.2	1264.3	1322.4	1379.4	1400.0
40°	1178.2	1210.9	1274.0	1334.6	1358.8
42.5°	1118.8	1152.7	1224.3	1289.7	1311.5
45°	1057.0	1092.1	1174.6	1240.0	1266.7
47.5°	991.5	1034.0	1120.0	1187.9	1208.5
50°	920.0	970.9	1064.3	1129.7	1147.9
52.5°	853.3	905.5	1006.1	1069.1	1078.8
55°	780.6	841.2	945.5	995.2	1009.7
57.5°	706.7	774.6	878.8	924.9	939.4
60°	635.2	704.3	808.5	850.9	865.5
62.5°	558.8	640.0	734.6	774.6	777.0
65°	486.1	566.1	657.0	681.2	689.7
67.5°	407.3	499.4	579.4	600.0	612.1
70°	337.0	431.5	489.7	523.6	534.6
72.5°	277.6	361.2	407.3	455.8	470.3
75°	221.8	292.1	333.3	385.5	398.8
77.5°	172.1	226.7	272.7	318.8	326.1
80°	123.6	156.4	208.5	243.6	249.7
82.5°	82.4	103.0	147.9	167.3	170.9
85°	42.4	64.2	81.2	94.5	92.1
87.5°	15.8	24.2	27.9	31.5	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)