

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: P183822

Luminaire Tested: **24SR-LD2-45-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183822  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P32665)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24SR-LD2-45-S-UNV-L830-CD1-U  
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER  
  
Light Source: EATON LED 3000K  
Ballast/Driver: OSRAM ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4331.4 lumens  
Efficiency: N/A  
Efficacy: 118.0 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.55 / 1.51  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

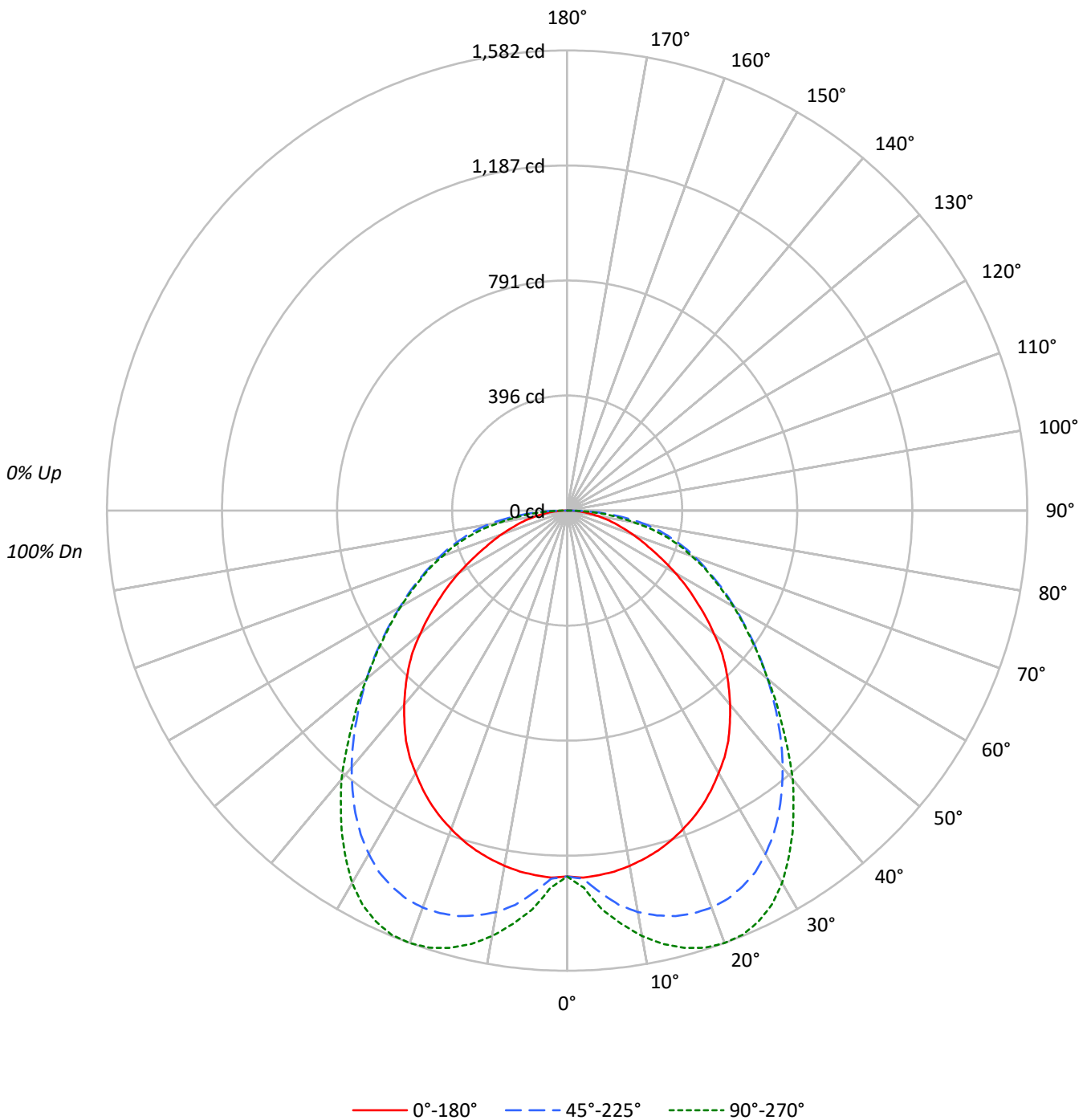
Input Watts (W): 36.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	99	94	105	101	97	93	96	93	90	93	90	87	89	87	85	82
2	98	90	82	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	46	40	52	45	39	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	29	55	42	34	29	41	33	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	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1692	1692	1692
5°	1699	1781	1859
10°	1694	1915	2029
15°	1685	2011	2168
20°	1668	2079	2265
25°	1649	2116	2313
30°	1619	2118	2296
35°	1586	2085	2219
40°	1531	2024	2120
45°	1470	1951	1990
50°	1380	1883	1883
55°	1270	1824	1812
60°	1156	1788	1778
65°	1027	1788	1764
70°	945	1840	1784
75°	879	1948	1850
80°	827	2127	1801
85°	804	2296	1883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.1	3.0
10°-20°	402.5	9.3
20°-30°	641.0	14.8
30°-40°	764.5	17.6
40°-50°	753.1	17.4
50°-60°	650.4	15.0
60°-70°	507.6	11.7
70°-80°	347.8	8.0
80°-90°	136.5	3.2
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°	1171.7	27.1
0°-40°	1936.1	44.7
0°-60°	3339.5	77.1
0°-90°	4331.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4331.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1258	1281	1319	1368	1376	120
15°	1210	1338	1443	1534	1556	341
25°	1110	1286	1426	1534	1558	511
35°	966	1130	1269	1342	1351	602
45°	772	914	1025	1055	1046	594
55°	541	686	778	780	772	485
65°	323	483	562	559	554	324
75°	169	328	375	360	356	179
85°	52	158	149	127	122	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1257.9	1257.9	1257.9	1257.9	1257.9
2.5°	1263.0	1264.3	1266.8	1292.2	1297.3
5°	1257.9	1280.8	1318.9	1368.4	1376.1
7.5°	1251.5	1302.4	1367.2	1420.5	1433.2
10°	1240.1	1324.0	1401.5	1468.8	1485.3
12.5°	1226.1	1335.4	1425.6	1504.4	1526.0
15°	1209.6	1337.9	1443.4	1533.6	1556.5
17.5°	1189.3	1334.1	1451.0	1550.1	1575.6
20°	1165.1	1324.0	1452.3	1556.5	1581.9
22.5°	1139.7	1308.7	1444.7	1551.4	1578.1
25°	1110.5	1285.9	1425.6	1533.6	1557.8
27.5°	1077.5	1254.1	1401.5	1503.1	1526.0
30°	1041.9	1217.2	1363.4	1458.7	1477.7
32.5°	1006.3	1176.6	1320.2	1405.3	1416.7
35°	965.7	1129.6	1269.3	1341.8	1350.7
37.5°	918.6	1082.6	1212.2	1275.7	1278.2
40°	871.6	1025.4	1152.4	1199.5	1207.1
42.5°	822.1	969.5	1090.2	1129.6	1124.5
45°	772.5	913.6	1025.4	1054.6	1045.7
47.5°	720.4	856.4	961.8	980.9	974.6
50°	659.4	799.2	899.6	909.8	899.6
52.5°	601.0	744.6	838.6	843.7	834.8
55°	541.3	686.1	777.6	780.2	772.5
57.5°	486.6	631.5	719.2	719.2	715.4
60°	429.5	576.9	664.5	662.0	660.7
62.5°	374.8	528.6	613.7	609.9	606.1
65°	322.7	482.8	561.6	559.1	554.0
67.5°	279.5	439.6	513.3	509.5	507.0
70°	240.1	401.5	467.6	457.4	453.6
72.5°	202.0	363.4	423.1	407.9	409.1
75°	169.0	327.8	374.8	359.6	355.8
77.5°	136.0	291.0	327.8	303.7	298.6
80°	106.7	251.6	274.5	244.0	232.5
82.5°	78.8	208.4	213.5	184.2	176.6
85°	52.1	157.6	148.7	127.1	122.0
87.5°	28.0	92.8	80.0	64.8	61.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)