

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: P183828

Luminaire Tested: **24SR-LD2-48-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183828
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-LD2-48-S-UNV-L835-CD1-U
Description: METALUX SKYRIDGE EDGELIT LED 2X4 TROFFER

Light Source: EATON LED 3500K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4755.3 lumens
Efficiency: N/A
Efficacy: 124.5 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

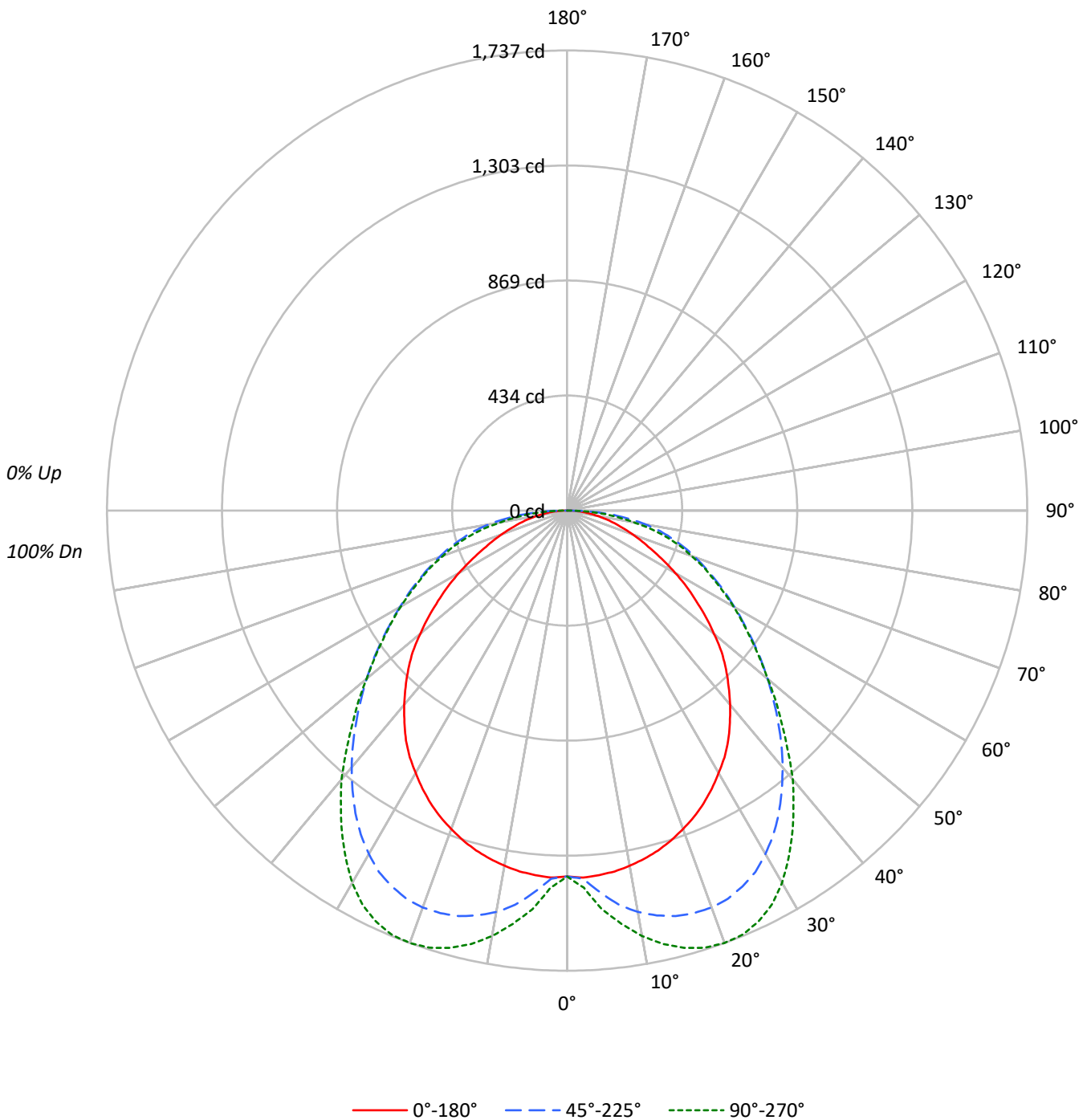
Input Watts (W): 38.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1858	1858	1858
5°	1865	1956	2040
10°	1860	2102	2228
15°	1850	2207	2380
20°	1832	2283	2487
25°	1810	2324	2539
30°	1777	2325	2520
35°	1741	2289	2436
40°	1681	2222	2328
45°	1614	2142	2185
50°	1515	2067	2067
55°	1394	2003	1989
60°	1269	1963	1952
65°	1128	1963	1936
70°	1037	2019	1959
75°	964	2139	2031
80°	908	2335	1978
85°	883	2519	2067



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.7	3.0
10°-20°	441.9	9.3
20°-30°	703.8	14.8
30°-40°	839.3	17.6
40°-50°	826.7	17.4
50°-60°	714.0	15.0
60°-70°	557.2	11.7
70°-80°	381.8	8.0
80°-90°	149.9	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°	1286.3	27.1
0°-40°	2125.6	44.7
0°-60°	3666.4	77.1
0°-90°	4755.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4755.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1381	1381	1381	1381	1381	
5°	1381	1406	1448	1502	1511	131
15°	1328	1469	1585	1684	1709	374
25°	1219	1412	1565	1684	1710	561
35°	1060	1240	1394	1473	1483	661
45°	848	1003	1126	1158	1148	652
55°	594	753	854	856	848	533
65°	354	530	617	614	608	356
75°	186	360	412	395	391	197
85°	57	173	163	140	134	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.0	1381.0	1381.0	1381.0	1381.0
2.5°	1386.6	1388.0	1390.8	1418.7	1424.3
5°	1381.0	1406.1	1448.0	1502.4	1510.7
7.5°	1374.0	1429.8	1501.0	1559.6	1573.5
10°	1361.5	1453.6	1538.6	1612.6	1630.7
12.5°	1346.1	1466.1	1565.2	1651.6	1675.4
15°	1328.0	1468.9	1584.7	1683.7	1708.8
17.5°	1305.7	1464.7	1593.1	1701.9	1729.8
20°	1279.2	1453.6	1594.4	1708.8	1736.7
22.5°	1251.3	1436.8	1586.1	1703.3	1732.5
25°	1219.2	1411.7	1565.2	1683.7	1710.2
27.5°	1182.9	1376.8	1538.6	1650.2	1675.4
30°	1143.9	1336.4	1496.8	1601.4	1622.3
32.5°	1104.8	1291.7	1449.4	1542.8	1555.4
35°	1060.2	1240.1	1393.6	1473.1	1482.8
37.5°	1008.6	1188.5	1330.8	1400.5	1403.3
40°	956.9	1125.7	1265.2	1316.8	1325.2
42.5°	902.5	1064.4	1196.9	1240.1	1234.5
45°	848.1	1003.0	1125.7	1157.8	1148.1
47.5°	790.9	940.2	1056.0	1076.9	1069.9
50°	724.0	877.4	987.6	998.8	987.6
52.5°	659.8	817.5	920.7	926.3	916.5
55°	594.3	753.3	853.7	856.5	848.1
57.5°	534.3	693.3	789.6	789.6	785.4
60°	471.5	633.3	729.6	726.8	725.4
62.5°	411.5	580.3	673.8	669.6	665.4
65°	354.3	530.1	616.6	613.8	608.2
67.5°	306.9	482.7	563.6	559.4	556.6
70°	263.6	440.8	513.3	502.2	498.0
72.5°	221.8	399.0	464.5	447.8	449.2
75°	185.5	359.9	411.5	394.8	390.6
77.5°	149.3	319.4	359.9	333.4	327.8
80°	117.2	276.2	301.3	267.8	255.3
82.5°	86.5	228.8	234.4	202.3	193.9
85°	57.2	173.0	163.2	139.5	133.9
87.5°	30.7	101.8	87.9	71.1	67.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)