

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: P183778

Luminaire Tested: **24SR-LD2-39-C-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183778
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34443)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24SR-LD2-39-C-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: 3997.0 lumens
Efficiency: N/A
Efficacy: 125.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.52 / 1.48
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

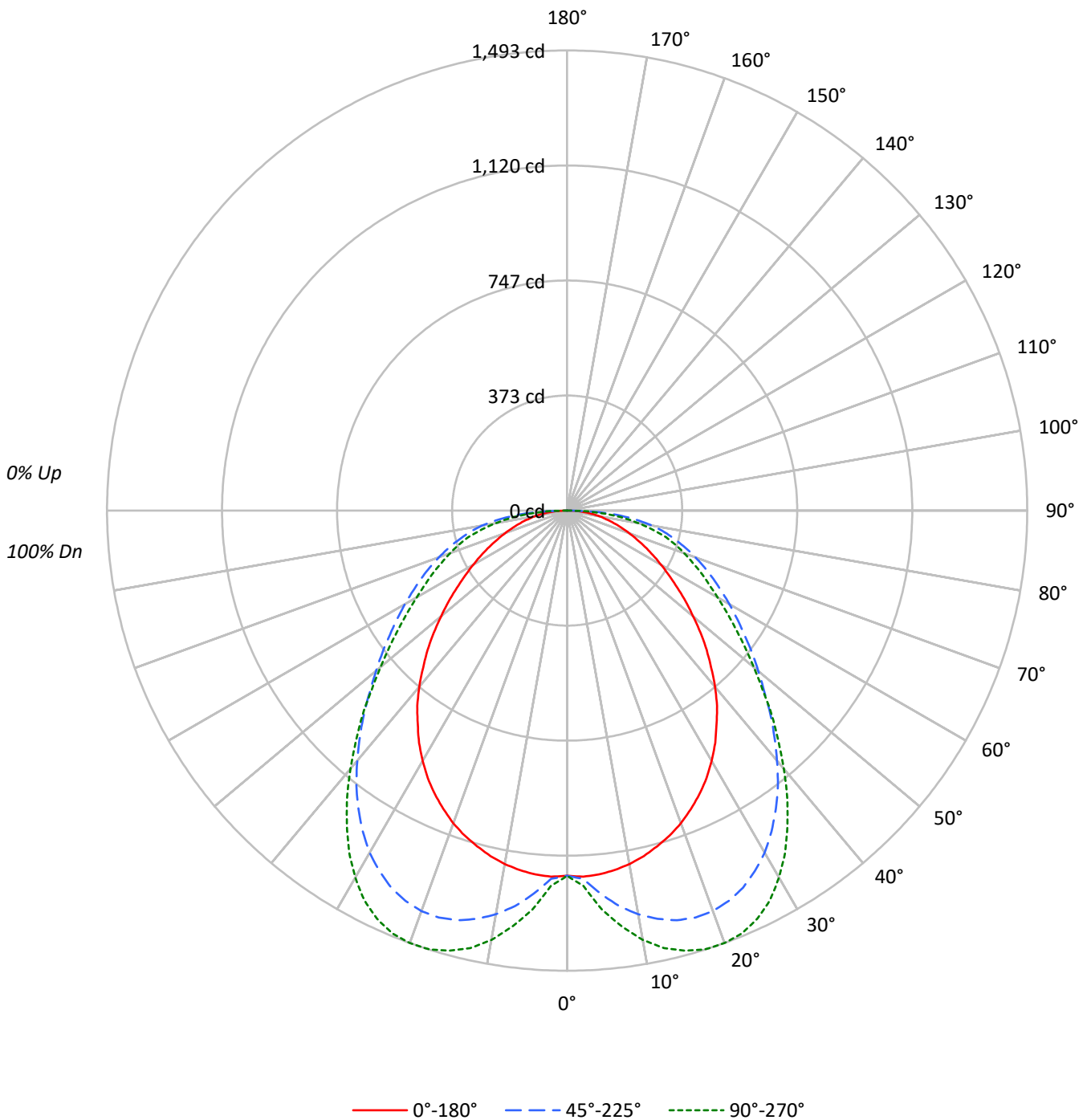
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	96	93	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	53	46	59	51	46	57	50	45	55	49	45	42
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	59	46	38	32	44	37	32	43	36	32	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29	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°	1594	1594	1594
5°	1600	1685	1755
10°	1591	1817	1932
15°	1571	1917	2059
20°	1546	1980	2138
25°	1508	2004	2169
30°	1457	1991	2136
35°	1388	1940	2047
40°	1312	1861	1921
45°	1218	1774	1787
50°	1117	1694	1654
55°	1025	1646	1563
60°	948	1635	1517
65°	887	1664	1530
70°	843	1740	1590
75°	816	1888	1724
80°	825	2168	1819
85°	865	2529	1981



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.0
10°-20°	381.3	9.5
20°-30°	601.8	15.1
30°-40°	705.3	17.6
40°-50°	674.7	16.9
50°-60°	574.9	14.4
60°-70°	461.3	11.5
70°-80°	333.9	8.4
80°-90°	142.6	3.6
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°	1104.2	27.6
0°-40°	1809.5	45.3
0°-60°	3059.1	76.5
0°-90°	3997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1185	1207	1248	1291	1300	112
15°	1128	1263	1376	1458	1478	318
25°	1016	1211	1350	1442	1461	467
35°	845	1052	1181	1244	1246	528
45°	640	827	932	945	939	493
55°	437	622	702	683	666	392
65°	278	468	523	489	480	277
75°	157	332	363	334	332	167
85°	56	166	164	135	128	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1184.9	1184.9	1184.9	1184.9	1184.9
2.5°	1189.0	1190.4	1195.8	1219.0	1219.0
5°	1184.9	1206.8	1247.7	1291.4	1299.6
7.5°	1176.7	1225.9	1294.1	1350.1	1361.0
10°	1164.4	1246.3	1329.6	1397.9	1414.3
12.5°	1148.1	1258.6	1356.9	1434.7	1453.8
15°	1127.6	1262.7	1376.0	1457.9	1478.4
17.5°	1105.7	1261.4	1384.2	1471.6	1492.1
20°	1079.8	1250.4	1382.9	1474.3	1493.4
22.5°	1048.4	1235.4	1370.6	1463.4	1483.9
25°	1015.6	1210.9	1350.1	1441.6	1460.7
27.5°	978.8	1182.2	1318.7	1407.4	1425.2
30°	937.8	1145.3	1281.8	1361.0	1374.7
32.5°	894.1	1101.6	1234.1	1306.4	1316.0
35°	845.0	1052.5	1180.8	1243.6	1246.3
37.5°	798.6	999.3	1123.5	1174.0	1172.6
40°	746.7	941.9	1059.3	1100.3	1093.5
42.5°	692.1	884.6	995.2	1023.8	1014.3
45°	640.2	827.3	932.4	944.7	939.2
47.5°	587.0	769.9	866.8	876.4	860.0
50°	533.8	718.0	809.5	805.4	790.4
52.5°	484.6	670.3	754.9	742.6	726.2
55°	436.8	622.5	701.7	682.6	666.2
57.5°	391.8	580.2	653.9	628.0	612.9
60°	352.2	539.2	607.5	577.4	563.8
62.5°	314.0	502.4	563.8	532.4	518.7
65°	278.5	468.2	522.8	488.7	480.5
67.5°	244.4	434.1	481.9	449.1	439.6
70°	214.3	398.6	442.3	409.5	404.1
72.5°	184.3	365.8	402.7	372.7	368.6
75°	157.0	331.7	363.1	334.5	331.7
77.5°	129.7	294.9	323.5	289.4	282.6
80°	106.5	258.0	279.8	240.3	234.8
82.5°	80.5	213.0	223.9	188.4	185.7
85°	56.0	166.5	163.8	135.1	128.3
87.5°	30.0	99.7	87.4	69.6	66.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)