

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: P183777

Luminaire Tested: **24SR-LD2-39-C-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183777
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-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: 3877.1 lumens
Efficiency: N/A
Efficacy: 121.5 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

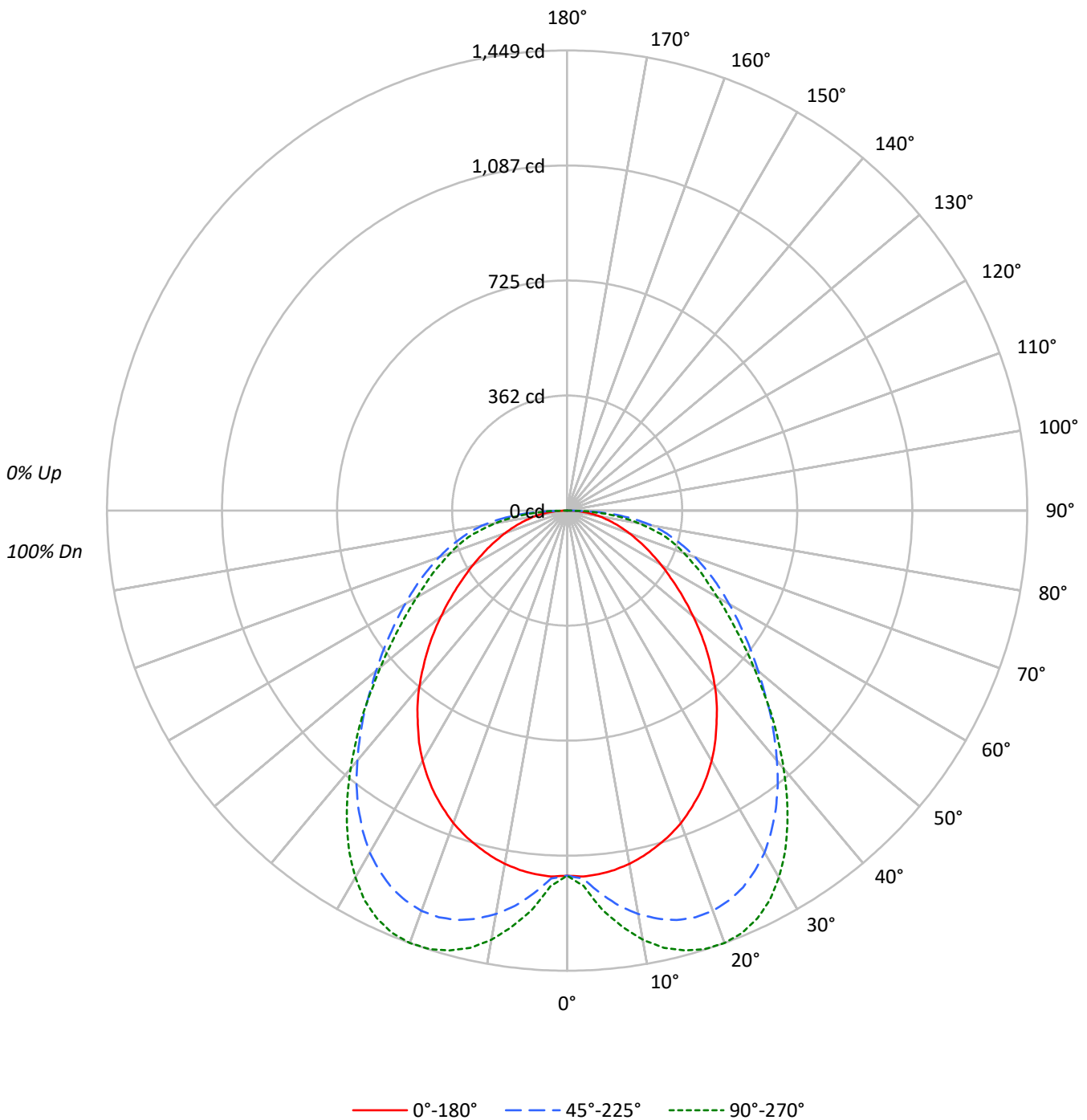
Input Watts (W): 31.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1547	1547	1547
5°	1552	1635	1703
10°	1543	1762	1874
15°	1524	1859	1998
20°	1500	1921	2074
25°	1463	1944	2103
30°	1413	1932	2072
35°	1346	1881	1986
40°	1272	1805	1863
45°	1182	1721	1733
50°	1084	1644	1605
55°	994	1597	1516
60°	919	1586	1472
65°	860	1615	1484
70°	818	1688	1542
75°	792	1831	1673
80°	800	2104	1765
85°	838	2453	1922



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.5	3.0
10°-20°	369.9	9.5
20°-30°	583.8	15.1
30°-40°	684.1	17.6
40°-50°	654.5	16.9
50°-60°	557.7	14.4
60°-70°	447.5	11.5
70°-80°	323.9	8.4
80°-90°	138.3	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°	1071.1	27.6
0°-40°	1755.2	45.3
0°-60°	2967.3	76.5
0°-90°	3877.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3877.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1149	1171	1210	1253	1261	109
15°	1094	1225	1335	1414	1434	308
25°	985	1174	1310	1398	1417	453
35°	820	1021	1145	1206	1209	513
45°	621	802	904	916	911	479
55°	424	604	681	662	646	381
65°	270	454	507	474	466	269
75°	152	322	352	324	322	162
85°	54	162	159	131	124	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.4	1149.4	1149.4	1149.4	1149.4
2.5°	1153.3	1154.7	1160.0	1182.5	1182.5
5°	1149.4	1170.6	1210.3	1252.7	1260.6
7.5°	1141.4	1189.1	1255.3	1309.6	1320.2
10°	1129.5	1209.0	1289.7	1355.9	1371.8
12.5°	1113.6	1220.9	1316.2	1391.7	1410.2
15°	1093.8	1224.8	1334.7	1414.2	1434.1
17.5°	1072.6	1223.5	1342.7	1427.4	1447.3
20°	1047.4	1212.9	1341.4	1430.1	1448.6
22.5°	1017.0	1198.4	1329.5	1419.5	1439.4
25°	985.2	1174.5	1309.6	1398.3	1416.8
27.5°	949.4	1146.7	1279.1	1365.2	1382.4
30°	909.7	1111.0	1243.4	1320.2	1333.4
32.5°	867.3	1068.6	1197.0	1267.2	1276.5
35°	819.7	1020.9	1145.4	1206.3	1209.0
37.5°	774.6	969.3	1089.8	1138.8	1137.5
40°	724.3	913.7	1027.5	1067.3	1060.6
42.5°	671.3	858.1	965.3	993.1	983.8
45°	621.0	802.4	904.4	916.3	911.0
47.5°	569.4	746.8	840.8	850.1	834.2
50°	517.7	696.5	785.2	781.3	766.7
52.5°	470.1	650.2	732.3	720.3	704.5
55°	423.7	603.8	680.6	662.1	646.2
57.5°	380.0	562.8	634.3	609.1	594.5
60°	341.6	523.0	589.2	560.1	546.9
62.5°	304.6	487.3	546.9	516.4	503.2
65°	270.1	454.2	507.2	474.0	466.1
67.5°	237.0	421.1	467.4	435.6	426.4
70°	207.9	386.7	429.0	397.2	392.0
72.5°	178.8	354.9	390.6	361.5	357.5
75°	152.3	321.8	352.2	324.4	321.8
77.5°	125.8	286.0	313.8	280.7	274.1
80°	103.3	250.3	271.5	233.1	227.8
82.5°	78.1	206.6	217.2	182.7	180.1
85°	54.3	161.5	158.9	131.1	124.5
87.5°	29.1	96.7	84.7	67.5	64.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)