

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: P182410

Luminaire Tested: **22FR-32-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26769)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22FR-32-UNV-L830-CD1-U
Description: METALUX 2X2 FR TROFFER LED FIXTURE

Light Source: EATON LED 3000K
Ballast/Driver: OSRAM ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3217.0 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.22 / 1.31
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

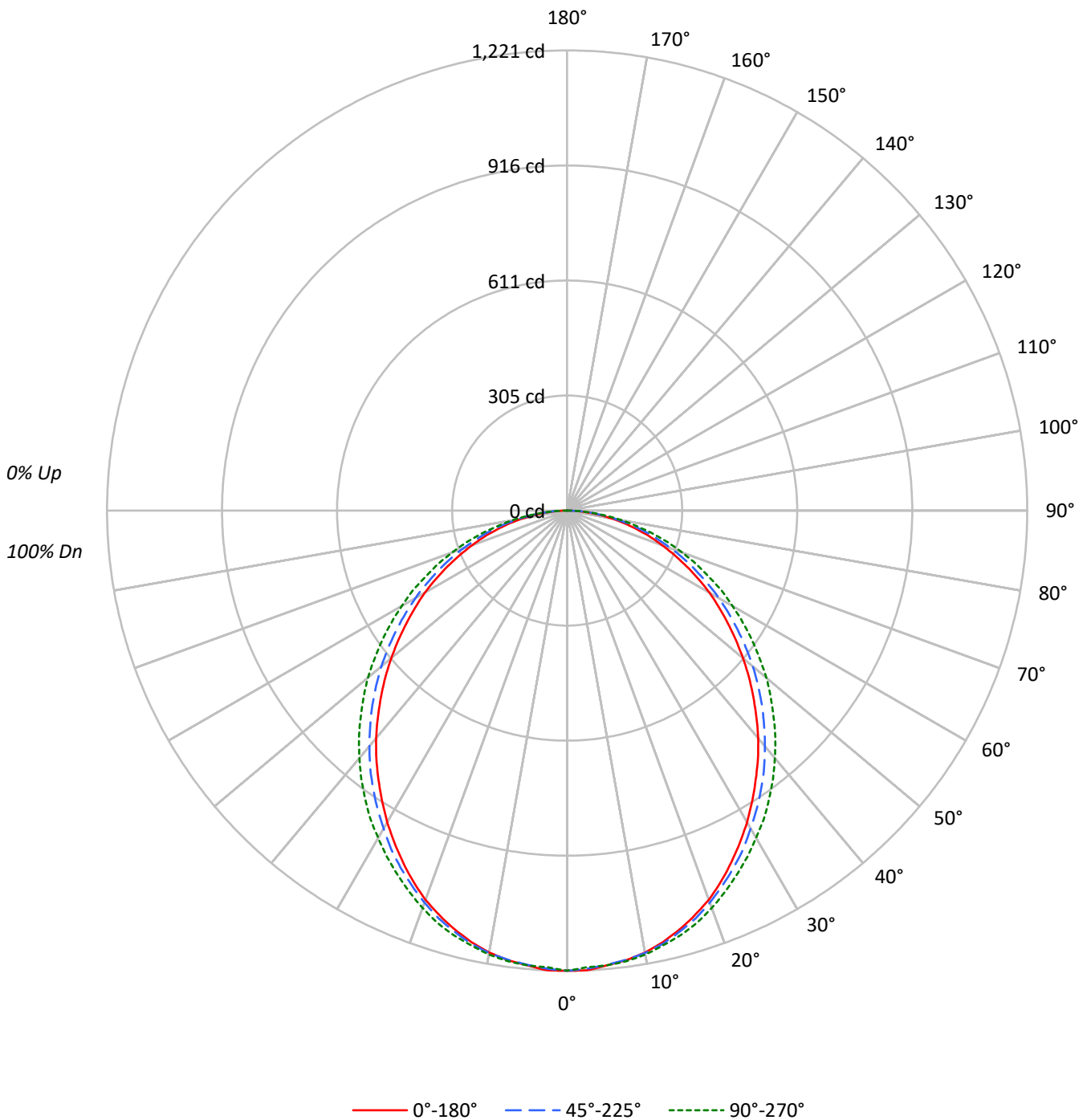
Input Watts (W): 34.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	94	97	94	91		94	91	88		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	63		72	67	62		70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54		65	58	53		62	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	41	36		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	38	33		43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30		41	34	29		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3285	3285	3285
5°	3272	3268	3272
10°	3254	3257	3269
15°	3206	3222	3248
20°	3147	3170	3213
25°	3059	3104	3165
30°	2967	3026	3116
35°	2866	2952	3069
40°	2771	2867	3012
45°	2657	2782	2949
50°	2550	2694	2889
55°	2439	2594	2806
60°	2348	2503	2724
65°	2227	2402	2638
70°	2105	2310	2547
75°	1983	2210	2425
80°	1829	2063	2253
85°	1609	1865	1948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.6
10°-20°	326.2	10.1
20°-30°	482.1	15.0
30°-40°	563.4	17.5
40°-50°	565.9	17.6
50°-60°	497.4	15.5
60°-70°	376.3	11.7
70°-80°	224.4	7.0
80°-90°	66.4	2.1
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°	923.3	28.7
0°-40°	1486.7	46.2
0°-60°	2550.0	79.3
0°-90°	3217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1211	1213	1210	1210	1211	115
15°	1151	1154	1156	1162	1166	324
25°	1030	1036	1045	1059	1066	474
35°	872	882	898	920	934	546
45°	698	705	731	759	775	539
55°	520	528	553	583	598	466
65°	350	354	377	403	414	347
75°	191	196	213	228	233	203
85°	52	54	60	64	63	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.9	1220.9	1220.9	1220.9	1220.9
2.5°	1220.9	1219.5	1216.7	1214.0	1212.6
5°	1211.3	1212.6	1209.9	1209.9	1211.3
7.5°	1203.0	1203.0	1201.7	1203.0	1205.8
10°	1190.7	1192.1	1192.1	1190.7	1196.2
12.5°	1172.8	1174.2	1177.0	1177.0	1181.1
15°	1150.9	1153.6	1156.4	1161.9	1166.0
17.5°	1126.2	1130.3	1134.4	1141.3	1146.8
20°	1098.8	1101.5	1107.0	1115.2	1122.1
22.5°	1065.9	1070.0	1076.8	1087.8	1094.7
25°	1030.2	1035.7	1045.3	1059.0	1065.9
27.5°	993.1	1000.0	1012.4	1026.1	1035.7
30°	954.7	961.6	973.9	991.8	1002.7
32.5°	913.6	921.8	936.9	956.1	971.2
35°	872.4	882.0	898.5	920.4	934.2
37.5°	831.3	839.5	858.7	882.0	897.1
40°	788.8	795.6	816.2	842.3	857.3
42.5°	743.5	751.7	773.7	801.1	817.6
45°	698.2	705.1	731.1	758.6	775.0
47.5°	654.3	662.6	687.2	716.1	732.5
50°	609.1	618.7	643.4	673.5	690.0
52.5°	563.8	572.0	598.1	628.3	643.4
55°	519.9	528.1	552.8	583.0	598.1
57.5°	477.4	484.2	508.9	537.7	552.8
60°	436.2	440.3	465.0	493.8	506.2
62.5°	392.3	397.8	421.1	448.6	463.7
65°	349.8	353.9	377.2	403.3	414.3
67.5°	307.3	312.8	336.1	359.4	370.4
70°	267.5	273.0	293.6	315.5	323.7
72.5°	230.5	234.6	251.0	271.6	279.8
75°	190.7	196.2	212.6	227.7	233.2
77.5°	155.0	159.1	172.8	185.2	187.9
80°	118.0	122.1	133.1	142.7	145.4
82.5°	83.7	87.8	96.0	102.9	104.3
85°	52.1	53.5	60.4	64.5	63.1
87.5°	21.9	23.3	24.7	24.7	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)