

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: P182411

Luminaire Tested: **22FR-32-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P182411
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-L835-CD1-U
Description: METALUX 2X2 FR TROFFER LED FIXTURE

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

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3313.0 lumens
Efficiency: N/A
Efficacy: 95.8 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

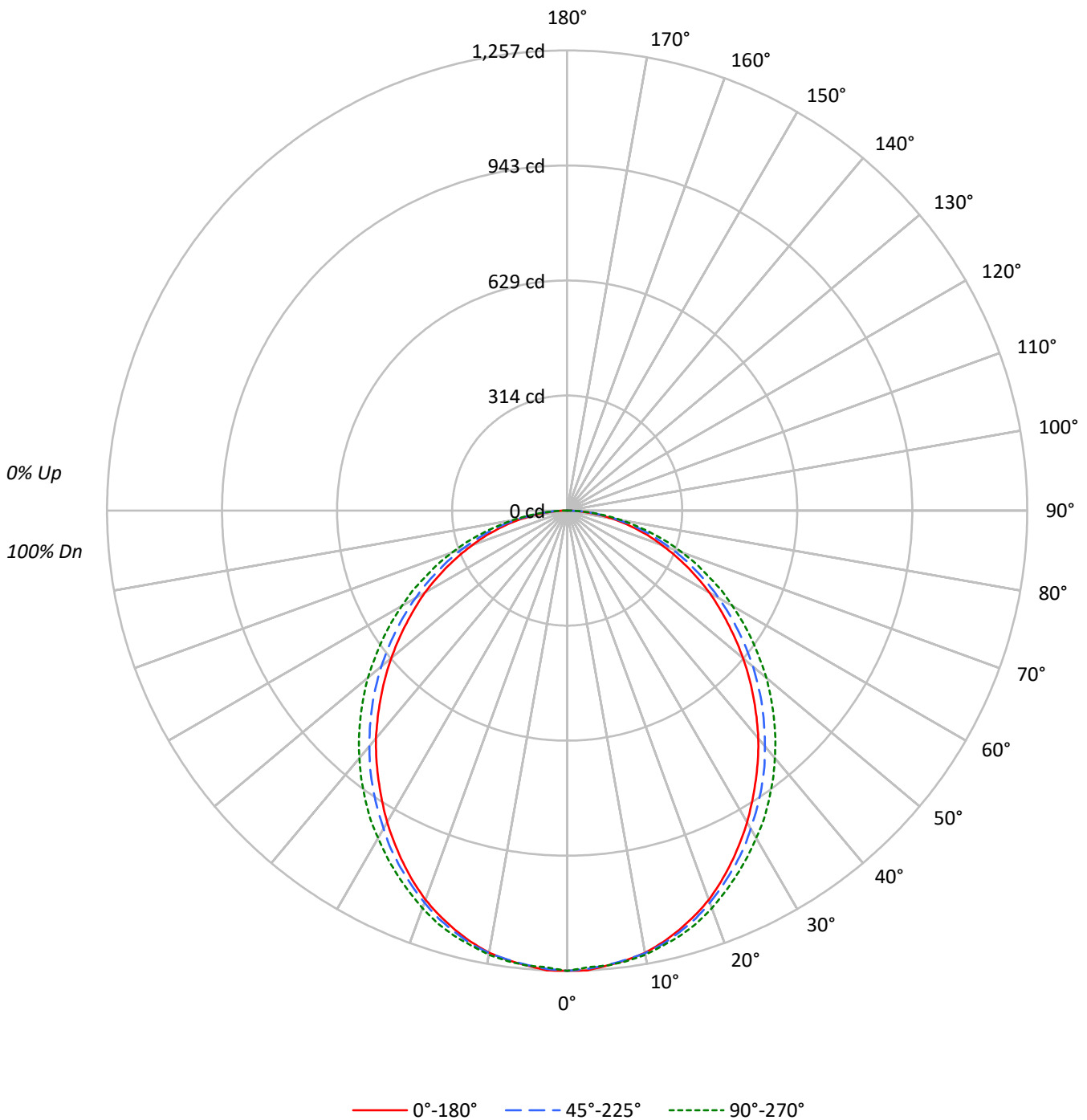
Input Watts (W): 34.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3383	3383	3383
5°	3370	3366	3370
10°	3351	3354	3366
15°	3302	3318	3345
20°	3241	3265	3309
25°	3150	3196	3259
30°	3055	3117	3209
35°	2952	3040	3160
40°	2853	2953	3101
45°	2737	2866	3038
50°	2626	2774	2975
55°	2512	2671	2890
60°	2418	2577	2806
65°	2294	2474	2716
70°	2168	2378	2623
75°	2042	2277	2497
80°	1883	2123	2320
85°	1658	1920	2007



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.6
10°-20°	335.9	10.1
20°-30°	496.5	15.0
30°-40°	580.2	17.5
40°-50°	582.8	17.6
50°-60°	512.3	15.5
60°-70°	387.5	11.7
70°-80°	231.1	7.0
80°-90°	68.4	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°	950.8	28.7
0°-40°	1531.0	46.2
0°-60°	2626.1	79.3
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1257	1257	1257	1257	1257	
5°	1247	1249	1246	1246	1247	118
15°	1185	1188	1191	1196	1201	334
25°	1061	1067	1076	1091	1098	488
35°	898	908	925	948	962	562
45°	719	726	753	781	798	555
55°	535	544	569	600	616	480
65°	360	364	388	415	427	357
75°	196	202	219	234	240	209
85°	54	55	62	66	65	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1257.3	1257.3	1257.3	1257.3	1257.3
2.5°	1257.3	1255.9	1253.1	1250.2	1248.8
5°	1247.4	1248.8	1246.0	1246.0	1247.4
7.5°	1238.9	1238.9	1237.5	1238.9	1241.8
10°	1226.2	1227.6	1227.6	1226.2	1231.9
12.5°	1207.8	1209.3	1212.1	1212.1	1216.3
15°	1185.2	1188.1	1190.9	1196.5	1200.8
17.5°	1159.8	1164.1	1168.3	1175.4	1181.0
20°	1131.6	1134.4	1140.0	1148.5	1155.6
22.5°	1097.7	1101.9	1109.0	1120.3	1127.3
25°	1060.9	1066.6	1076.5	1090.6	1097.7
27.5°	1022.8	1029.8	1042.6	1056.7	1066.6
30°	983.2	990.3	1003.0	1021.4	1032.7
32.5°	940.8	949.3	964.9	984.6	1000.2
35°	898.5	908.4	925.3	947.9	962.0
37.5°	856.1	864.6	884.3	908.4	923.9
40°	812.3	819.4	840.5	867.4	882.9
42.5°	765.7	774.2	796.8	825.0	842.0
45°	719.1	726.1	753.0	781.2	798.2
47.5°	673.9	682.3	707.8	737.4	754.4
50°	627.2	637.1	662.5	693.6	710.6
52.5°	580.6	589.1	615.9	647.0	662.5
55°	535.4	543.9	569.3	600.4	615.9
57.5°	491.6	498.7	524.1	553.8	569.3
60°	449.2	453.5	478.9	508.6	521.3
62.5°	404.0	409.7	433.7	461.9	477.5
65°	360.2	364.5	388.5	415.3	426.6
67.5°	316.4	322.1	346.1	370.1	381.4
70°	275.5	281.1	302.3	324.9	333.4
72.5°	237.3	241.6	258.5	279.7	288.2
75°	196.4	202.0	219.0	234.5	240.2
77.5°	159.6	163.9	178.0	190.7	193.5
80°	121.5	125.7	137.0	146.9	149.7
82.5°	86.2	90.4	98.9	106.0	107.4
85°	53.7	55.1	62.2	66.4	65.0
87.5°	22.6	24.0	25.4	25.4	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)