

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: P272006

Luminaire Tested: **22CZ2-44-UNV-L935-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P272006
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-33)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44-UNV-L935-CD1-U
Description: 2'X2' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (98) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3740.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

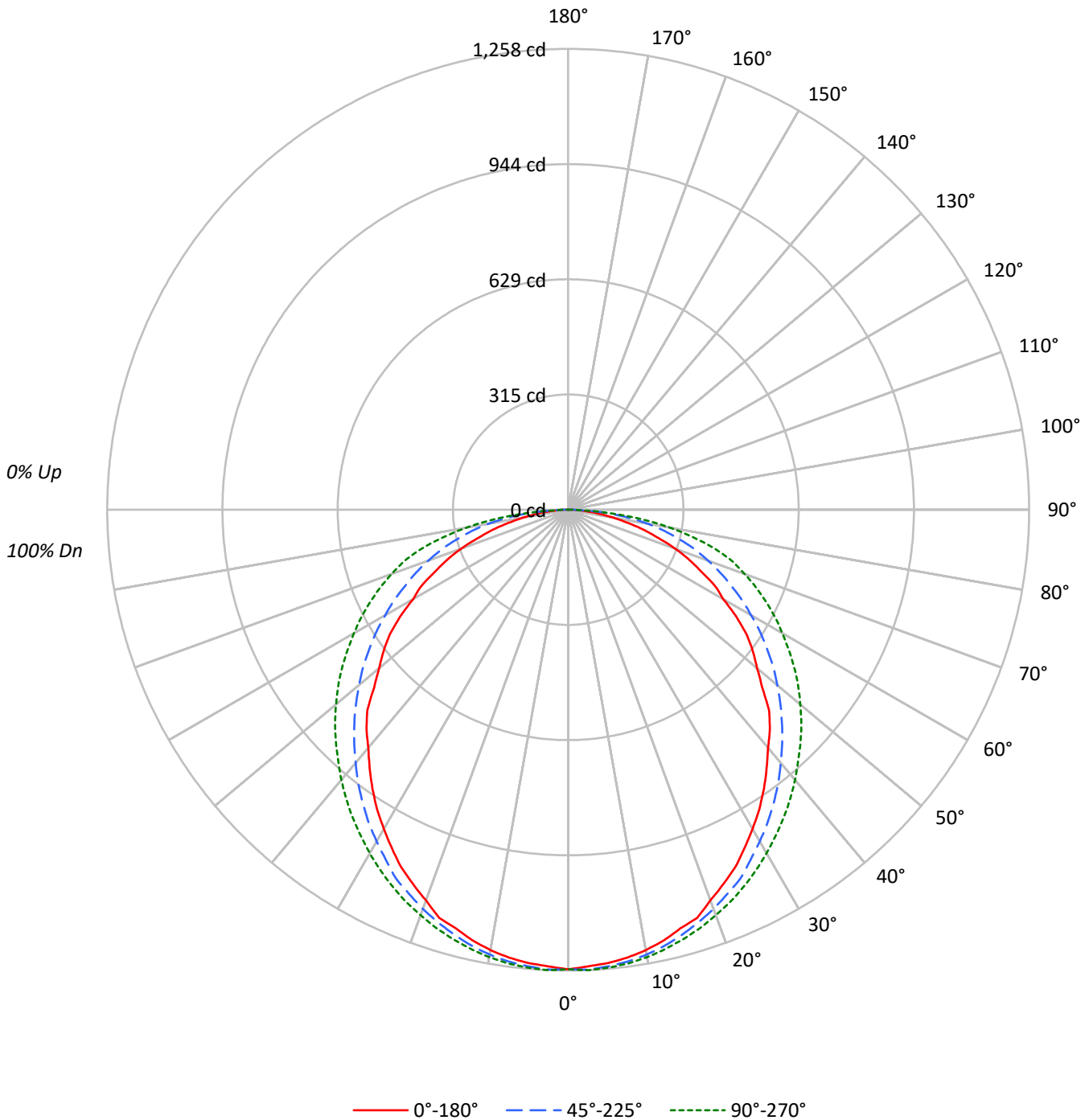
Input Watts (W): 42.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3377	3377	3377
5°	3356	3380	3390
10°	3336	3370	3390
15°	3296	3346	3381
20°	3250	3322	3373
25°	3200	3301	3370
30°	3126	3248	3365
35°	3058	3211	3370
40°	2981	3169	3383
45°	2950	3140	3413
50°	2817	3117	3462
55°	2788	3107	3536
60°	2630	3102	3632
65°	2553	3123	3796
70°	2451	3197	4028
75°	2233	3294	4337
80°	1914	3412	4382
85°	1547	3260	3758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	3.2
10°-20°	338.7	9.1
20°-30°	509.8	13.6
30°-40°	611.8	16.4
40°-50°	639.5	17.1
50°-60°	596.0	15.9
60°-70°	488.8	13.1
70°-80°	329.4	8.8
80°-90°	107.3	2.9
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°	967.2	25.9
0°-40°	1579.1	42.2
0°-60°	2814.5	75.3
0°-90°	3740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1255	1255	1255	1255	1255	
5°	1242	1246	1251	1253	1255	118
15°	1183	1190	1201	1212	1214	334
25°	1078	1085	1112	1128	1135	495
35°	931	943	977	1011	1026	582
45°	775	780	825	875	897	592
55°	594	605	662	725	754	527
65°	401	419	490	562	596	399
75°	215	238	317	388	417	226
85°	50	72	106	124	122	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1254.8	1254.8	1254.8	1254.8	1254.8
2.5°	1247.6	1251.2	1256.6	1258.4	1258.4
5°	1242.3	1245.9	1251.2	1253.0	1254.8
7.5°	1233.3	1236.9	1244.1	1247.6	1249.4
10°	1220.8	1224.4	1233.3	1238.7	1240.5
12.5°	1204.7	1208.3	1219.0	1226.2	1228.0
15°	1183.2	1190.4	1201.1	1211.8	1213.6
17.5°	1168.9	1167.1	1181.4	1193.9	1197.5
20°	1134.9	1143.8	1159.9	1174.3	1177.8
22.5°	1106.2	1113.4	1134.9	1151.0	1158.1
25°	1077.6	1084.8	1111.6	1127.7	1134.9
27.5°	1041.8	1052.5	1077.6	1100.9	1109.8
30°	1006.0	1016.7	1045.4	1072.2	1083.0
32.5°	970.2	982.7	1013.1	1041.8	1054.3
35°	930.8	943.3	977.3	1011.4	1025.7
37.5°	889.6	905.7	941.5	979.1	995.2
40°	848.5	864.6	902.2	945.1	963.0
42.5°	814.5	821.6	864.6	911.1	929.0
45°	775.1	780.4	825.2	875.3	896.8
47.5°	717.8	737.5	785.8	841.3	862.8
50°	673.0	694.5	744.6	803.7	827.0
52.5°	635.5	649.8	705.3	764.3	791.2
55°	594.3	605.0	662.3	725.0	753.6
57.5°	544.2	563.9	621.1	685.6	714.2
60°	488.7	513.7	576.4	646.2	674.8
62.5°	452.9	467.2	535.2	605.0	637.2
65°	401.0	418.9	490.5	562.1	596.1
67.5°	358.0	375.9	449.3	520.9	554.9
70°	311.5	329.4	406.3	477.9	511.9
72.5°	257.8	282.8	363.4	435.0	470.8
75°	214.8	238.1	316.8	388.4	417.1
77.5°	166.5	196.9	270.3	329.4	350.8
80°	123.5	153.9	220.2	263.1	282.8
82.5°	84.1	114.6	164.7	196.9	207.6
85°	50.1	71.6	105.6	123.5	121.7
87.5°	23.3	30.4	43.0	43.0	41.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)