

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: P274700

Luminaire Tested: **14CZ2-25-RDP-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: P274700  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-25-RDP-UNV-L935-CD1-U  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS WITH INSERT, 90CRI  
Light Source: (84) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER  
Luminaire Equipment: Sample No.   Condition   Description

**Summary**

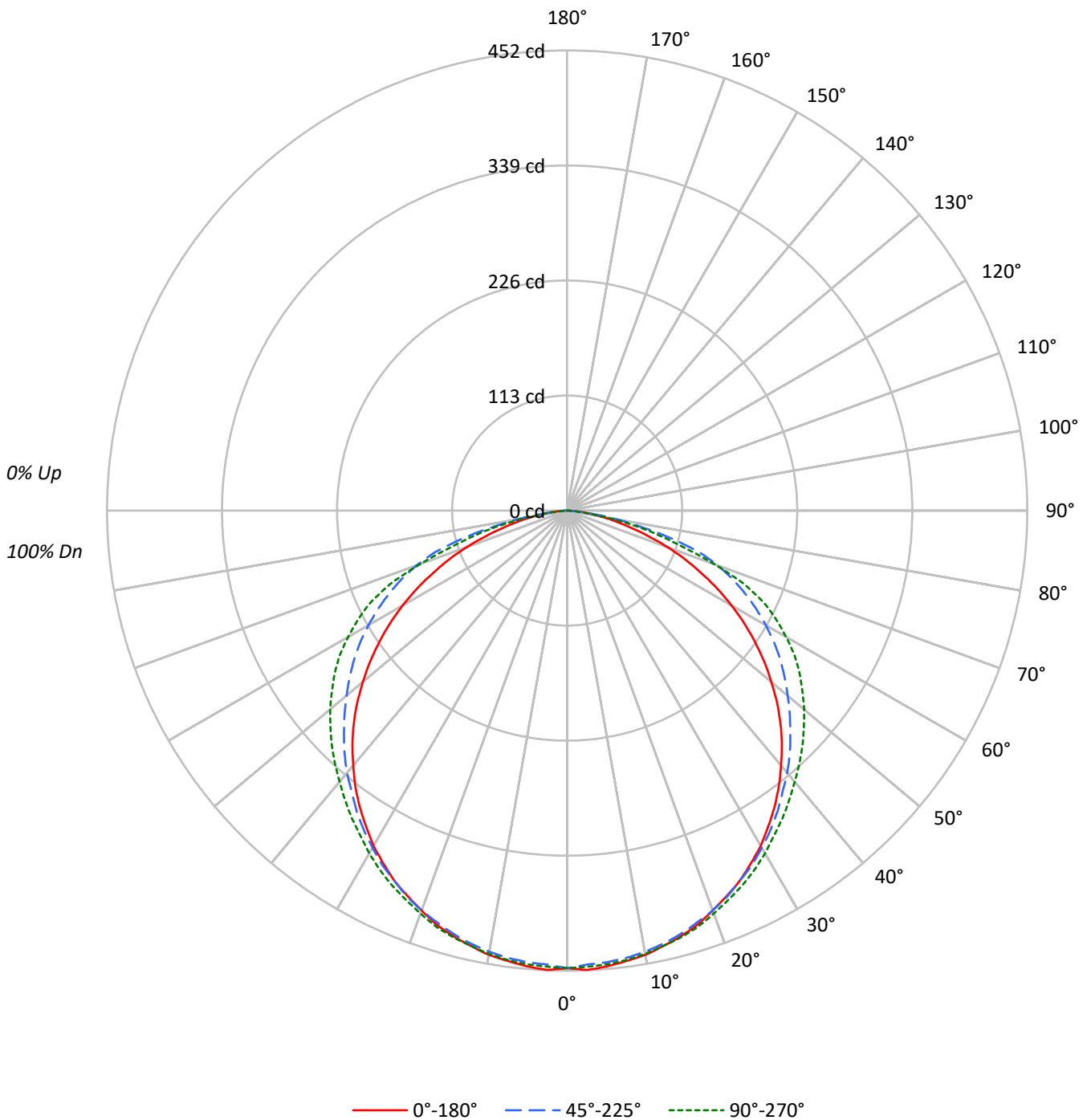
Lumens per Lamp: N/A  
Luminaire Lumens: 1342.0 lumens  
Efficiency: N/A  
Efficacy: 65.5 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.5  
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	93	91	88	90	88	86	84
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1210	1210	1210
5°	1214	1203	1209
10°	1211	1202	1208
15°	1205	1200	1209
20°	1197	1197	1206
25°	1192	1192	1207
30°	1182	1188	1208
35°	1167	1184	1212
40°	1148	1181	1222
45°	1128	1180	1244
50°	1096	1184	1272
55°	1057	1199	1308
60°	1004	1213	1336
65°	927	1228	1354
70°	825	1237	1212
75°	664	1111	969
80°	519	779	634
85°	355	225	161



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.5	3.2
10°-20°	122.1	9.1
20°-30°	185.9	13.8
30°-40°	226.4	16.9
40°-50°	240.2	17.9
50°-60°	226.7	16.9
60°-70°	183.0	13.6
70°-80°	99.3	7.4
80°-90°	16.1	1.2
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°	350.5	26.1
0°-40°	576.8	43.0
0°-60°	1043.6	77.8
0°-90°	1342.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1342.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	450	450	450	450	450	
5°	450	448	445	448	447	43
15°	433	432	431	434	434	122
25°	401	400	401	406	406	185
35°	355	357	360	368	369	222
45°	296	301	310	322	327	228
55°	225	235	256	272	279	201
65°	146	163	193	208	213	144
75°	64	93	107	96	93	70
85°	12	13	7	6	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	449.5	449.5	449.5	449.5	449.5
2.5°	451.6	449.5	446.3	449.5	448.4
5°	449.5	448.4	445.3	448.4	447.4
7.5°	446.3	446.3	443.2	445.3	445.3
10°	443.2	442.1	440.0	443.2	442.1
12.5°	437.9	436.9	435.8	439.0	437.9
15°	432.7	431.7	430.6	433.8	433.8
17.5°	426.4	425.4	424.3	428.5	428.5
20°	418.0	418.0	418.0	422.2	421.2
22.5°	409.7	409.7	410.7	414.9	413.8
25°	401.3	400.2	401.3	405.5	406.5
27.5°	390.8	391.8	392.9	397.1	398.1
30°	380.3	381.4	382.4	387.7	388.7
32.5°	367.7	369.8	371.9	378.2	378.2
35°	355.2	357.3	360.4	367.7	368.8
37.5°	341.6	343.7	347.8	356.2	358.3
40°	326.9	330.0	336.3	344.7	347.8
42.5°	312.2	316.4	323.7	333.2	337.4
45°	296.5	300.7	310.1	321.6	326.9
47.5°	279.7	285.0	296.5	311.2	315.4
50°	261.9	269.3	282.9	298.6	303.8
52.5°	244.1	252.5	269.3	286.0	291.3
55°	225.3	234.7	255.6	272.4	278.7
57.5°	206.4	216.9	241.0	258.8	265.1
60°	186.5	199.1	225.3	243.1	248.3
62.5°	166.6	181.3	209.5	227.4	231.5
65°	145.6	163.4	192.8	208.5	212.7
67.5°	125.7	146.7	176.0	187.5	187.5
70°	104.8	127.8	157.2	160.3	154.0
72.5°	83.8	110.0	136.2	124.7	119.4
75°	63.9	93.2	106.9	96.4	93.2
77.5°	48.2	75.4	75.4	69.1	67.1
80°	33.5	57.6	50.3	44.0	40.9
82.5°	22.0	32.5	26.2	21.0	17.8
85°	11.5	12.6	7.3	6.3	5.2
87.5°	4.2	2.1	1.0	2.1	1.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)