

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: P475422

Luminaire Tested: **14CZ2-20-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475422  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14CZ2-20-RDP-UNV-L835-CD1-U  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

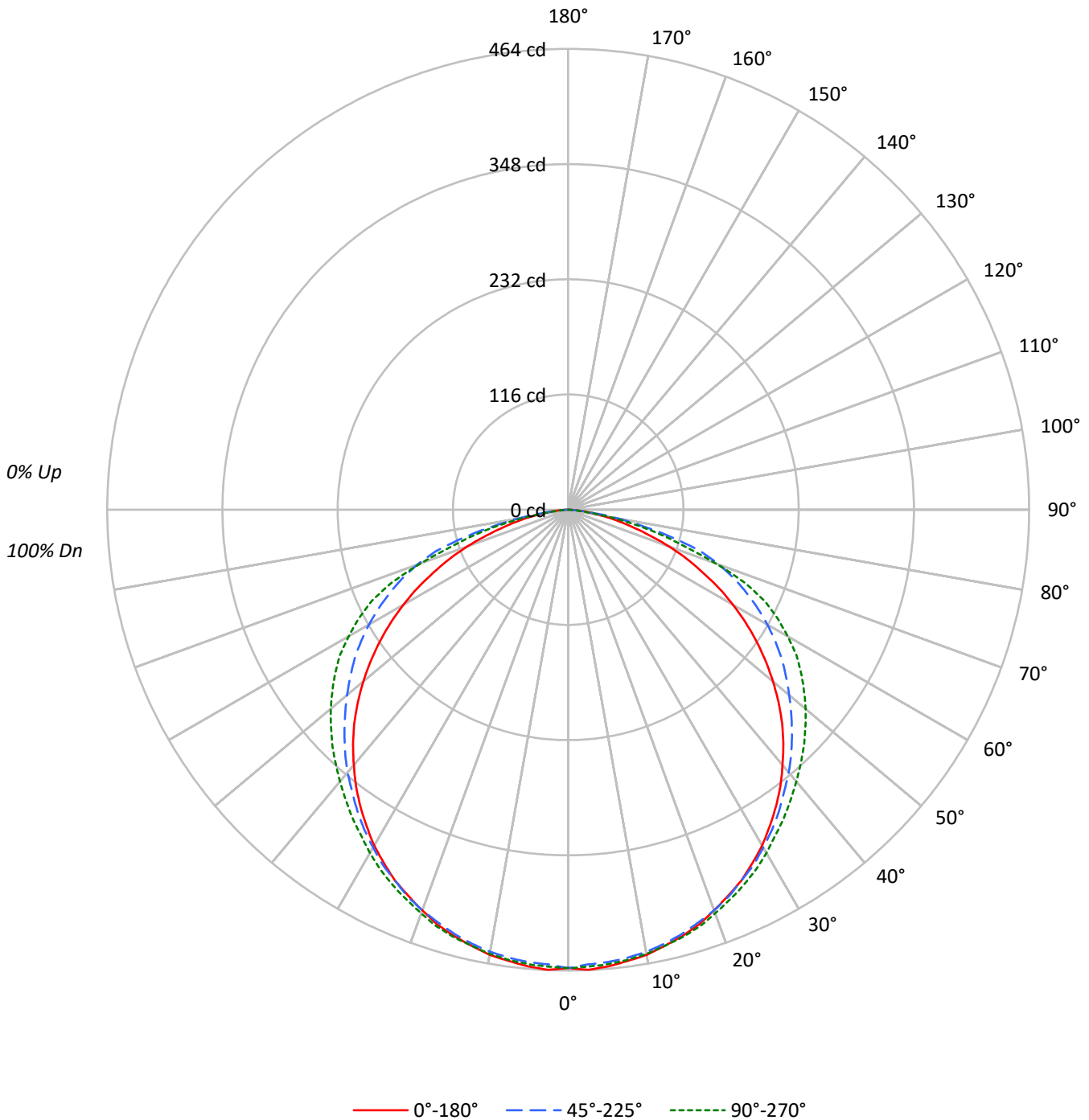
Lumens per Lamp: N/A  
Luminaire Lumens: 1378.1 lumens  
Efficiency: N/A  
Efficacy: 88.3 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 15.6  
Input Voltage (V): 120  
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°	1242	1242	1242
5°	1247	1235	1241
10°	1244	1235	1241
15°	1238	1232	1241
20°	1229	1229	1239
25°	1224	1224	1239
30°	1213	1220	1240
35°	1198	1216	1244
40°	1179	1213	1255
45°	1159	1212	1278
50°	1126	1216	1306
55°	1085	1232	1343
60°	1031	1245	1372
65°	952	1261	1391
70°	847	1270	1245
75°	682	1141	996
80°	533	800	651
85°	364	232	167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	3.2
10°-20°	125.3	9.1
20°-30°	190.9	13.8
30°-40°	232.5	16.9
40°-50°	246.6	17.9
50°-60°	232.8	16.9
60°-70°	187.9	13.6
70°-80°	102.0	7.4
80°-90°	16.5	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°	359.9	26.1
0°-40°	592.3	43.0
0°-60°	1071.7	77.8
0°-90°	1378.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1378.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	462	460	457	460	459	44
15°	444	443	442	445	445	125
25°	412	411	412	416	417	190
35°	365	367	370	378	379	228
45°	304	309	318	330	336	234
55°	231	241	262	280	286	207
65°	150	168	198	214	218	148
75°	66	96	110	99	96	72
85°	12	13	8	6	5	15
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	461.5	461.5	461.5	461.5	461.5
2.5°	463.7	461.5	458.3	461.5	460.5
5°	461.5	460.5	457.2	460.5	459.4
7.5°	458.3	458.3	455.1	457.2	457.2
10°	455.1	454.0	451.9	455.1	454.0
12.5°	449.7	448.6	447.6	450.8	449.7
15°	444.3	443.3	442.2	445.4	445.4
17.5°	437.9	436.8	435.7	440.0	440.0
20°	429.3	429.3	429.3	433.6	432.5
22.5°	420.7	420.7	421.7	426.0	425.0
25°	412.1	411.0	412.1	416.4	417.4
27.5°	401.3	402.4	403.5	407.8	408.8
30°	390.5	391.6	392.7	398.1	399.1
32.5°	377.6	379.8	381.9	388.4	388.4
35°	364.7	366.9	370.1	377.6	378.7
37.5°	350.7	352.9	357.2	365.8	367.9
40°	335.7	338.9	345.4	354.0	357.2
42.5°	320.6	324.9	332.4	342.1	346.4
45°	304.5	308.8	318.5	330.3	335.7
47.5°	287.3	292.6	304.5	319.5	323.8
50°	269.0	276.5	290.5	306.6	312.0
52.5°	250.7	259.3	276.5	293.7	299.1
55°	231.3	241.0	262.5	279.7	286.2
57.5°	211.9	222.7	247.5	265.7	272.2
60°	191.5	204.4	231.3	249.6	255.0
62.5°	171.1	186.1	215.2	233.5	237.8
65°	149.5	167.8	198.0	214.1	218.4
67.5°	129.1	150.6	180.7	192.6	192.6
70°	107.6	131.3	161.4	164.6	158.2
72.5°	86.1	113.0	139.9	128.0	122.6
75°	65.6	95.8	109.7	99.0	95.8
77.5°	49.5	77.5	77.5	71.0	68.9
80°	34.4	59.2	51.6	45.2	42.0
82.5°	22.6	33.4	26.9	21.5	18.3
85°	11.8	12.9	7.5	6.5	5.4
87.5°	4.3	2.2	1.1	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)