

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: P475022

Luminaire Tested: **22CZ2-20-RDP-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475022  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ2-20-RDP-UNV-L835-CD1-U  
Description: 2'X2' TROFFER LED MODULE, SMOOTH LENS W/ RDP INSERT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

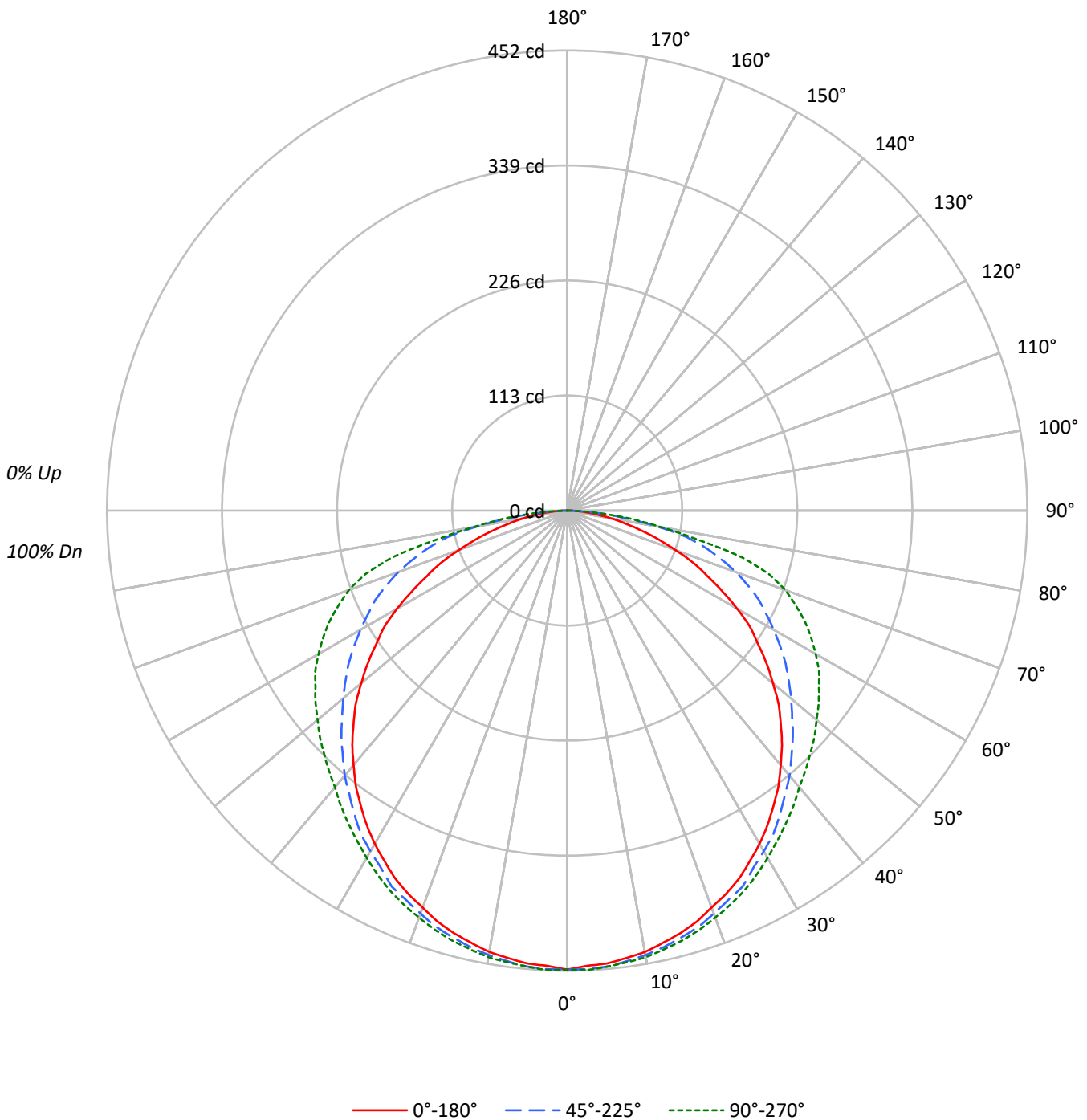
Lumens per Lamp: N/A  
Luminaire Lumens: 1435.2 lumens  
Efficiency: N/A  
Efficacy: 88.6 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 16.2  
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	108	103	98	94	105	100	96	92	96	92	89		92	89	86		88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72		80	75	71		76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60		70	64	59		67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50		61	55	50		59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43		55	48	43		53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38		50	43	37		48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33		45	38	33		44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29		41	34	29		40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26		38	31	26		37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34	28	24	22

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

	0°	45°	90°
0°	1213	1213	1213
5°	1206	1215	1215
10°	1203	1212	1217
15°	1197	1209	1217
20°	1188	1206	1218
25°	1185	1210	1223
30°	1175	1201	1224
35°	1162	1196	1231
40°	1146	1194	1246
45°	1129	1193	1286
50°	1105	1202	1339
55°	1075	1229	1416
60°	1040	1262	1517
65°	968	1324	1641
70°	889	1388	1795
75°	780	1460	1855
80°	671	1390	1457
85°	587	1010	1108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.6	3.0
10°-20°	122.4	8.5
20°-30°	186.8	13.0
30°-40°	228.1	15.9
40°-50°	243.9	17.0
50°-60°	235.4	16.4
60°-70°	202.6	14.1
70°-80°	137.1	9.6
80°-90°	36.2	2.5
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°	351.9	24.5
0°-40°	580.0	40.4
0°-60°	1059.3	73.8
0°-90°	1435.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1435.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	451	451	451	451	451	
5°	447	448	450	450	450	42
15°	430	431	434	436	437	121
25°	399	401	408	410	412	184
35°	354	357	364	372	375	221
45°	297	302	314	329	338	229
55°	229	236	262	288	302	205
65°	152	167	208	241	258	151
75°	75	99	140	169	178	80
85°	19	26	33	34	36	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	450.8	450.8	450.8	450.8	450.8
2.5°	447.6	448.7	450.8	450.8	451.8
5°	446.6	447.6	449.7	449.7	449.7
7.5°	443.4	444.5	446.6	447.6	447.6
10°	440.2	441.3	443.4	444.5	445.5
12.5°	434.9	436.0	439.1	441.3	441.3
15°	429.7	430.8	433.9	436.0	437.0
17.5°	423.3	425.5	428.7	430.8	431.8
20°	414.9	417.0	421.2	424.5	425.5
22.5°	407.6	409.7	413.9	417.0	419.1
25°	399.1	401.2	407.6	409.7	411.8
27.5°	388.5	390.7	395.9	400.1	403.3
30°	378.0	380.1	386.4	391.7	393.8
32.5°	366.3	369.5	376.9	381.1	384.3
35°	353.6	356.8	364.2	371.6	374.8
37.5°	341.1	344.2	351.5	361.1	365.3
40°	326.3	330.5	339.9	352.6	354.7
42.5°	312.5	317.8	326.3	341.1	346.3
45°	296.7	301.9	313.6	329.4	337.8
47.5°	281.9	287.1	299.8	318.8	329.4
50°	263.9	271.3	287.1	309.4	319.9
52.5°	247.1	253.4	274.5	298.8	311.5
55°	229.1	236.5	261.9	288.2	301.9
57.5°	213.3	219.6	248.1	277.7	293.5
60°	193.2	201.6	234.4	266.0	281.9
62.5°	172.0	184.7	220.6	253.4	270.2
65°	152.0	166.8	208.0	240.7	257.7
67.5°	134.1	149.9	192.2	227.0	242.9
70°	113.0	133.0	176.4	210.1	228.1
72.5°	94.0	116.1	158.4	192.2	208.0
75°	75.0	99.2	140.4	168.9	178.4
77.5°	58.0	81.3	120.3	128.8	129.9
80°	43.3	64.4	89.7	90.7	94.0
82.5°	29.6	45.4	58.0	63.4	64.4
85°	19.0	26.4	32.7	33.8	35.9
87.5°	8.5	9.5	11.6	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)