

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: P#

Luminaire Tested: **22CZ-LD5-39-UNV-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25706)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22CZ-LD5-39-UNV-L835-CD1-U  
Description: CRUZE 2x2 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

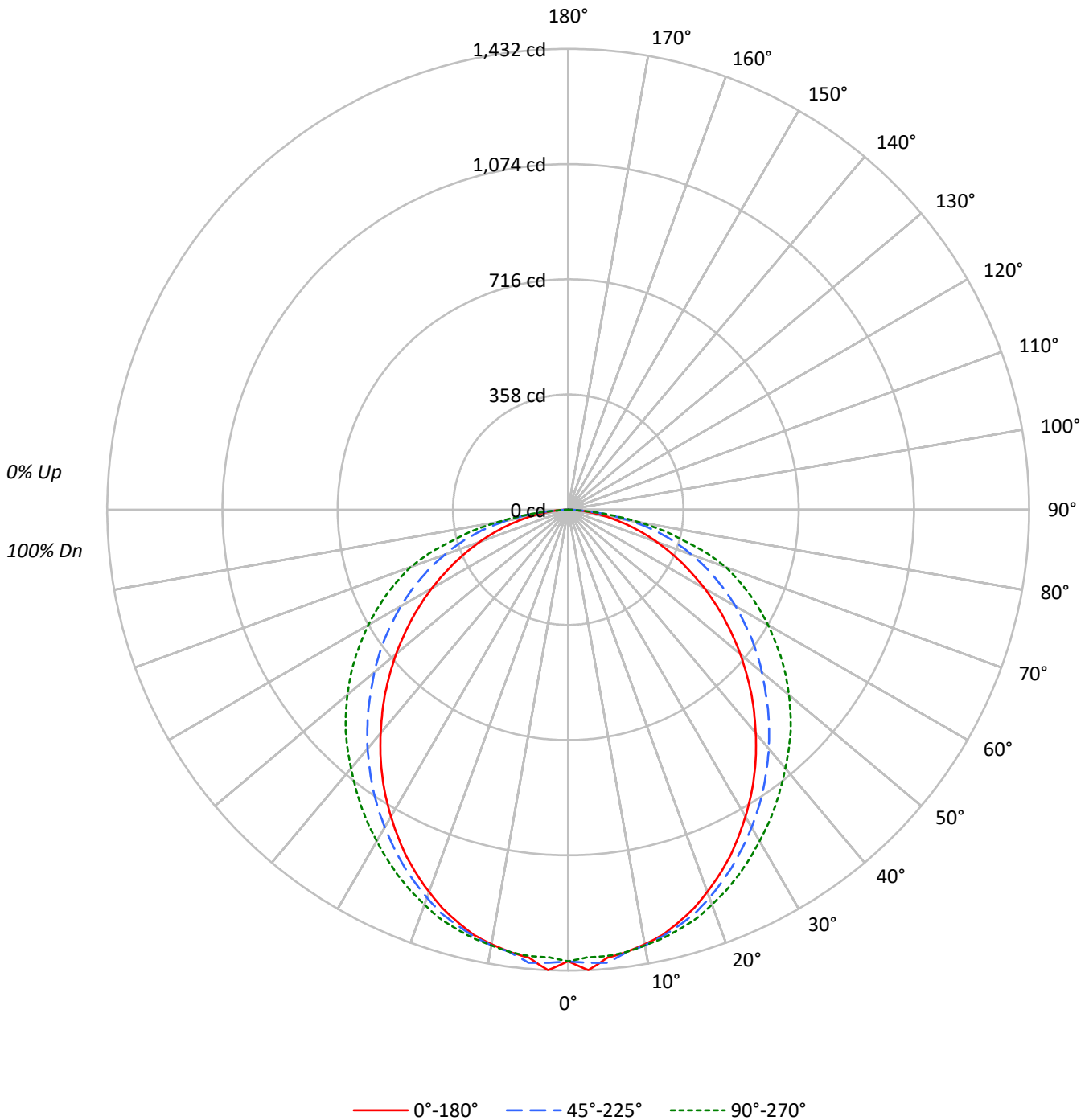
Lumens per Lamp: N/A  
Luminaire Lumens: 3932.0 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 36.41  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	104	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

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

	0°	45°	90°
0°	3777	3777	3777
5°	3759	3793	3744
10°	3714	3710	3724
15°	3648	3654	3706
20°	3555	3582	3673
25°	3451	3496	3634
30°	3326	3402	3592
35°	3198	3310	3562
40°	3055	3215	3539
45°	2911	3119	3541
50°	2757	3034	3536
55°	2595	2958	3542
60°	2425	2879	3551
65°	2232	2791	3574
70°	2023	2683	3598
75°	1759	2532	3267
80°	1408	2115	2678
85°	976	1241	1389



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.1	3.4
10°-20°	377.0	9.6
20°-30°	560.9	14.3
30°-40°	663.4	16.9
40°-50°	681.8	17.3
50°-60°	623.1	15.8
60°-70°	498.4	12.7
70°-80°	312.8	8.0
80°-90°	81.5	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°	1071.1	27.2
0°-40°	1734.4	44.1
0°-60°	3039.3	77.3
0°-90°	3932.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3932.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1398	1398	1413	1404	1392	133
15°	1327	1329	1336	1344	1348	374
25°	1189	1197	1216	1237	1252	547
35°	1008	1021	1057	1098	1122	630
45°	803	824	878	943	977	619
55°	593	621	694	771	809	530
65°	388	423	505	581	621	385
75°	201	239	308	354	373	213
85°	50	63	73	71	71	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1403.5	1403.5	1403.5	1403.5	1403.5
2.5°	1432.1	1426.4	1409.2	1397.7	1392.0
5°	1397.7	1397.7	1413.0	1403.5	1392.0
7.5°	1386.3	1386.3	1386.3	1414.9	1386.3
10°	1371.0	1372.9	1374.8	1386.3	1374.8
12.5°	1353.7	1353.7	1357.6	1361.4	1363.3
15°	1327.0	1328.9	1336.5	1344.2	1348.0
17.5°	1298.3	1304.0	1313.6	1323.2	1330.8
20°	1263.9	1271.5	1283.0	1298.3	1305.9
22.5°	1227.6	1235.2	1250.5	1267.7	1281.1
25°	1189.3	1197.0	1216.1	1237.1	1252.4
27.5°	1145.3	1154.9	1177.8	1206.5	1221.8
30°	1101.4	1112.8	1139.6	1172.1	1189.3
32.5°	1055.5	1068.9	1099.4	1135.8	1156.8
35°	1007.7	1021.0	1057.4	1097.5	1122.4
37.5°	957.9	973.2	1013.4	1059.3	1086.1
40°	906.3	923.5	969.4	1019.1	1049.7
42.5°	854.7	873.8	923.5	982.8	1013.4
45°	803.1	824.1	877.6	942.7	977.1
47.5°	749.5	774.4	829.8	902.5	936.9
50°	697.9	722.8	785.9	860.4	894.9
52.5°	644.4	673.1	740.0	816.5	852.8
55°	592.7	621.4	694.1	770.6	808.8
57.5°	541.1	569.8	646.3	724.7	762.9
60°	489.5	520.1	600.4	676.9	717.0
62.5°	437.9	470.4	552.6	631.0	669.2
65°	388.2	422.6	504.8	581.3	621.4
67.5°	340.3	376.7	457.0	531.6	571.7
70°	292.5	328.9	407.3	479.9	520.1
72.5°	246.7	283.0	359.5	424.5	455.1
75°	200.8	239.0	307.8	353.7	372.9
77.5°	156.8	195.0	254.3	284.9	305.9
80°	116.6	149.1	191.2	214.2	221.8
82.5°	80.3	107.1	133.8	139.6	143.4
85°	49.7	63.1	72.7	70.7	70.7
87.5°	22.9	24.9	21.0	15.3	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)