

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-L830-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-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

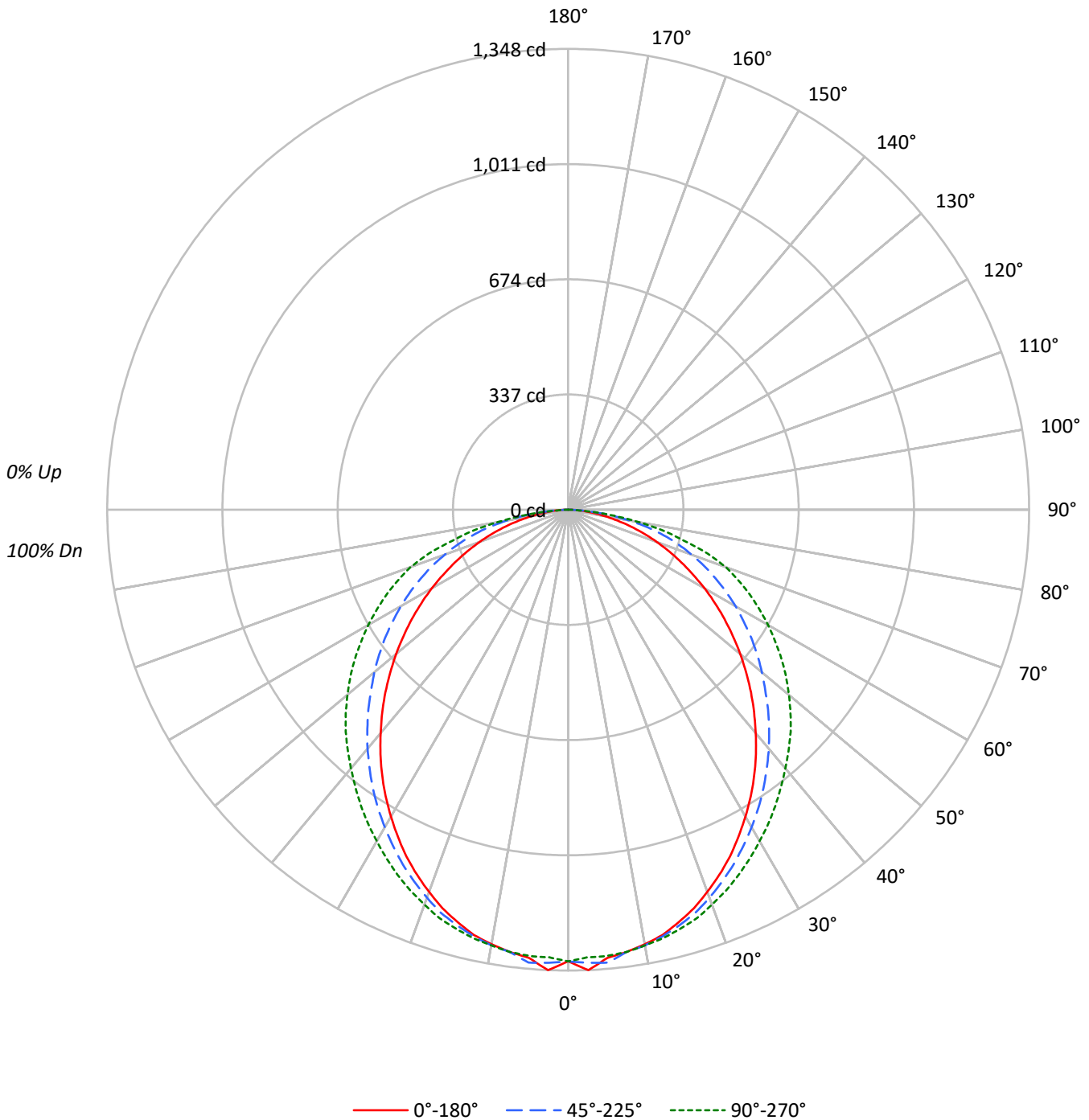
Lumens per Lamp: N/A
Luminaire Lumens: 3701.4 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 36.41
Input Voltage (V): NR
Input Current (A_{in}): 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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43					43			
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33					33			
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3555	3555	3555
5°	3539	3571	3524
10°	3496	3493	3505
15°	3434	3440	3488
20°	3346	3372	3457
25°	3249	3291	3421
30°	3131	3202	3381
35°	3011	3115	3354
40°	2876	3026	3332
45°	2740	2936	3334
50°	2595	2856	3328
55°	2443	2784	3334
60°	2282	2710	3343
65°	2101	2627	3364
70°	1905	2526	3386
75°	1656	2384	3076
80°	1326	1991	2521
85°	919	1168	1308



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.3	3.4
10°-20°	354.9	9.6
20°-30°	528.0	14.3
30°-40°	624.5	16.9
40°-50°	641.8	17.3
50°-60°	586.5	15.8
60°-70°	469.2	12.7
70°-80°	294.5	8.0
80°-90°	76.7	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°	1008.2	27.2
0°-40°	1632.7	44.1
0°-60°	2861.0	77.3
0°-90°	3701.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3701.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1321	1321	1321	1321	1321	
5°	1316	1316	1330	1321	1310	125
15°	1249	1251	1258	1265	1269	352
25°	1120	1127	1145	1164	1179	515
35°	949	961	995	1033	1057	593
45°	756	776	826	887	920	583
55°	558	585	653	725	761	499
65°	365	398	475	547	585	363
75°	189	225	290	333	351	201
85°	47	59	68	67	67	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.2	1321.2	1321.2	1321.2	1321.2
2.5°	1348.1	1342.7	1326.5	1315.8	1310.3
5°	1315.8	1315.8	1330.1	1321.2	1310.3
7.5°	1304.9	1304.9	1304.9	1331.9	1304.9
10°	1290.6	1292.4	1294.1	1304.9	1294.1
12.5°	1274.3	1274.3	1277.9	1281.6	1283.4
15°	1249.2	1251.0	1258.2	1265.3	1268.9
17.5°	1222.2	1227.5	1236.5	1245.5	1252.8
20°	1189.8	1196.9	1207.7	1222.2	1229.3
22.5°	1155.6	1162.7	1177.1	1193.3	1205.9
25°	1119.6	1126.7	1144.8	1164.5	1179.0
27.5°	1078.2	1087.2	1108.7	1135.7	1150.2
30°	1036.7	1047.6	1072.7	1103.3	1119.6
32.5°	993.5	1006.1	1034.9	1069.1	1089.0
35°	948.6	961.1	995.3	1033.1	1056.6
37.5°	901.7	916.2	954.0	997.1	1022.4
40°	853.2	869.3	912.6	959.3	988.2
42.5°	804.6	822.6	869.3	925.1	954.0
45°	755.9	775.8	826.1	887.4	919.8
47.5°	705.6	728.9	781.2	849.6	882.0
50°	656.9	680.4	739.8	810.0	842.4
52.5°	606.6	633.6	696.5	768.6	802.8
55°	557.9	585.0	653.4	725.3	761.3
57.5°	509.4	536.4	608.4	682.2	718.2
60°	460.8	489.5	565.2	637.2	675.0
62.5°	412.2	442.8	520.2	593.9	629.9
65°	365.4	397.8	475.2	547.2	585.0
67.5°	320.3	354.5	430.2	500.4	538.2
70°	275.4	309.6	383.4	451.8	489.5
72.5°	232.2	266.4	338.4	399.6	428.4
75°	189.0	225.0	289.8	333.0	351.0
77.5°	147.6	183.6	239.4	268.2	287.9
80°	109.8	140.4	180.0	201.6	208.8
82.5°	75.6	100.8	126.0	131.4	135.0
85°	46.8	59.4	68.4	66.6	66.6
87.5°	21.6	23.4	19.8	14.4	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)