

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-LD5-34-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-LD5-34-UNV-L830-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

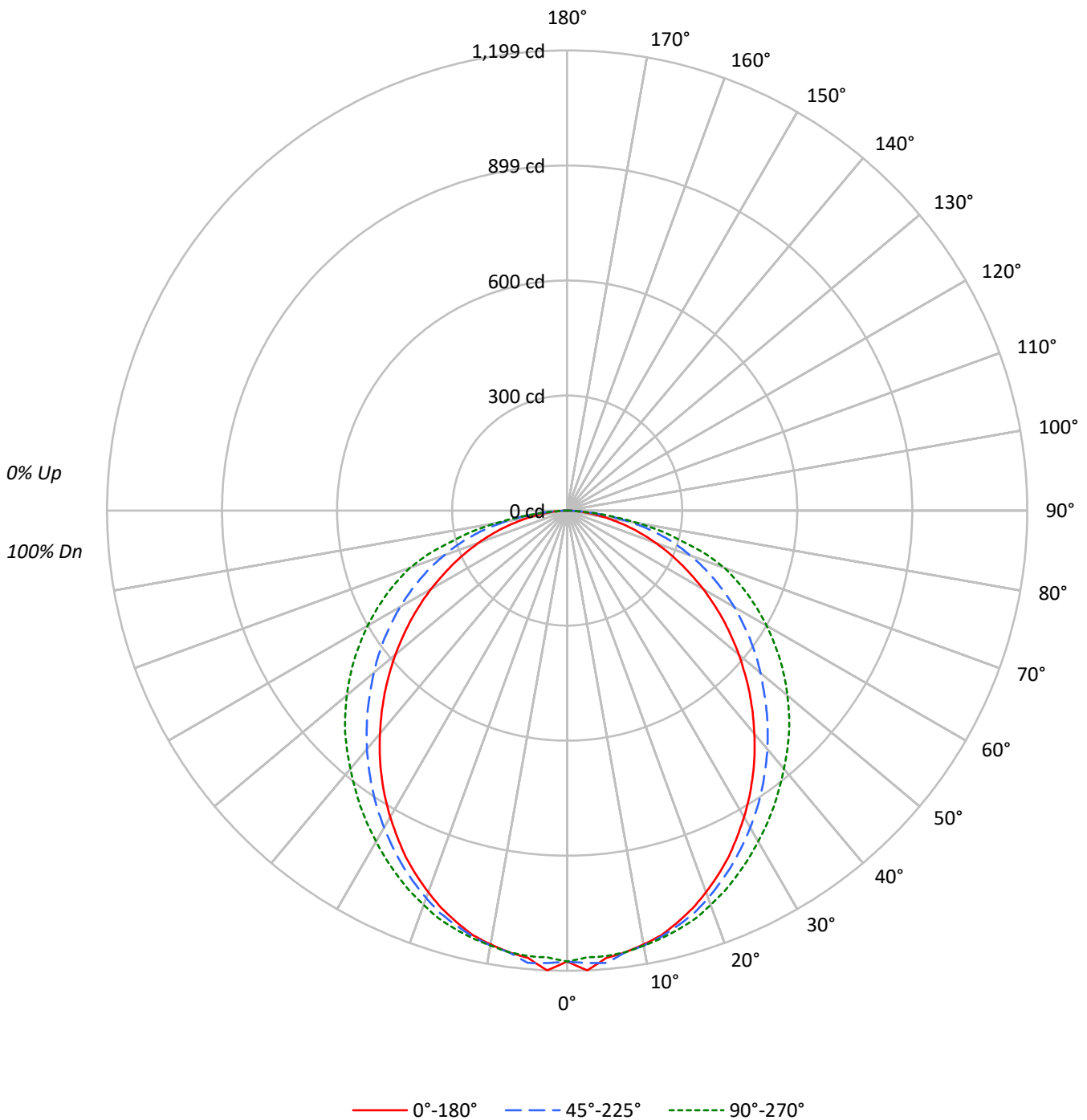
Lumens per Lamp: N/A
Luminaire Lumens: 3291.8 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.4
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	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°	3162	3162	3162
5°	3147	3176	3134
10°	3109	3106	3117
15°	3054	3059	3102
20°	2976	2999	3075
25°	2889	2926	3042
30°	2785	2848	3007
35°	2678	2771	2982
40°	2558	2691	2963
45°	2437	2611	2965
50°	2308	2540	2960
55°	2173	2476	2965
60°	2030	2410	2973
65°	1869	2337	2992
70°	1694	2247	3012
75°	1473	2120	2736
80°	1180	1771	2242
85°	817	1038	1163



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.4	3.4
10°-20°	315.7	9.6
20°-30°	469.6	14.3
30°-40°	555.4	16.9
40°-50°	570.8	17.3
50°-60°	521.6	15.8
60°-70°	417.3	12.7
70°-80°	261.9	8.0
80°-90°	68.2	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°	896.7	27.2
0°-40°	1452.1	44.1
0°-60°	2544.5	77.3
0°-90°	3291.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3291.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1170	1170	1183	1175	1165	111
15°	1111	1112	1119	1125	1128	313
25°	996	1002	1018	1036	1048	458
35°	844	855	885	919	940	527
45°	672	690	735	789	818	518
55°	496	520	581	645	677	444
65°	325	354	423	487	520	323
75°	168	200	258	296	312	179
85°	42	53	61	59	59	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1175.0	1175.0	1175.0	1175.0	1175.0
2.5°	1199.0	1194.1	1179.8	1170.2	1165.4
5°	1170.2	1170.2	1182.9	1175.0	1165.4
7.5°	1160.6	1160.6	1160.6	1184.6	1160.6
10°	1147.8	1149.4	1150.9	1160.6	1150.9
12.5°	1133.4	1133.4	1136.6	1139.7	1141.3
15°	1110.9	1112.5	1118.9	1125.4	1128.5
17.5°	1086.9	1091.7	1099.7	1107.7	1114.2
20°	1058.1	1064.5	1074.2	1086.9	1093.4
22.5°	1027.7	1034.1	1046.9	1061.3	1072.6
25°	995.7	1002.1	1018.1	1035.7	1048.5
27.5°	958.8	966.9	986.1	1010.1	1022.9
30°	922.1	931.7	954.1	981.3	995.7
32.5°	883.6	894.8	920.5	950.9	968.4
35°	843.6	854.8	885.2	918.8	939.6
37.5°	802.0	814.8	848.4	886.8	909.2
40°	758.8	773.2	811.6	853.2	878.8
42.5°	715.5	731.6	773.2	822.8	848.4
45°	672.3	689.9	734.7	789.2	818.0
47.5°	627.5	648.3	694.7	755.5	784.4
50°	584.2	605.1	657.9	720.4	749.2
52.5°	539.5	563.4	619.5	683.5	713.9
55°	496.3	520.2	581.1	645.1	677.2
57.5°	453.1	477.0	541.0	606.7	638.7
60°	409.8	435.4	502.6	566.7	600.3
62.5°	366.6	393.8	462.6	528.3	560.3
65°	325.0	353.8	422.6	486.7	520.2
67.5°	284.9	315.4	382.6	445.0	478.6
70°	244.9	275.3	341.0	401.8	435.4
72.5°	206.5	236.9	301.0	355.4	381.0
75°	168.1	200.1	257.7	296.1	312.2
77.5°	131.3	163.3	212.9	238.5	256.1
80°	97.7	124.8	160.1	179.3	185.7
82.5°	67.3	89.7	112.1	116.8	120.1
85°	41.6	52.8	60.8	59.2	59.2
87.5°	19.2	20.8	17.6	12.8	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)