

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-LD5-29-UNV-L850-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-LD5-29-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

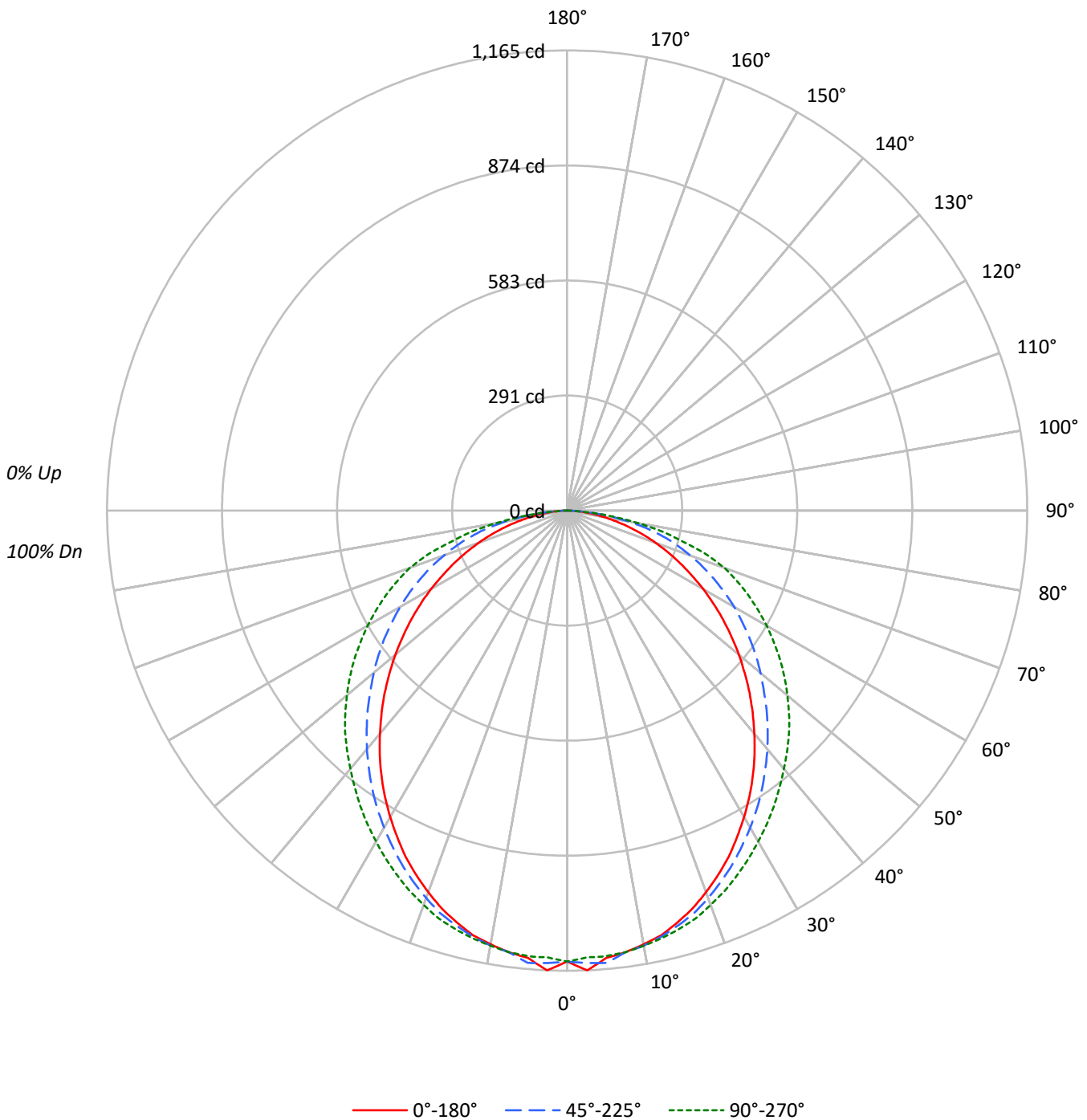
Lumens per Lamp: N/A
Luminaire Lumens: 3198.6 lumens
Efficiency: N/A
Efficacy: 136.1 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 23.5
Input Voltage (V): NR
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	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°	3072	3072	3072
5°	3058	3086	3046
10°	3021	3018	3029
15°	2968	2973	3015
20°	2892	2914	2988
25°	2807	2844	2956
30°	2706	2767	2922
35°	2602	2693	2898
40°	2486	2615	2879
45°	2368	2537	2881
50°	2243	2468	2876
55°	2112	2406	2881
60°	1972	2342	2889
65°	1816	2270	2907
70°	1646	2183	2927
75°	1431	2060	2658
80°	1146	1720	2178
85°	794	1009	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.4
10°-20°	306.7	9.6
20°-30°	456.3	14.3
30°-40°	539.6	16.9
40°-50°	554.7	17.3
50°-60°	506.8	15.8
60°-70°	405.4	12.7
70°-80°	254.5	8.0
80°-90°	66.3	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°	871.3	27.2
0°-40°	1410.9	44.1
0°-60°	2472.4	77.3
0°-90°	3198.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3198.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1137	1137	1150	1142	1132	108
15°	1080	1081	1087	1094	1097	304
25°	968	974	989	1006	1019	445
35°	820	831	860	893	913	512
45°	653	670	714	767	795	504
55°	482	506	565	627	658	431
65°	316	344	411	473	506	313
75°	163	194	250	288	303	173
85°	40	51	59	58	58	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.7	1141.7	1141.7	1141.7	1141.7
2.5°	1165.0	1160.4	1146.4	1137.0	1132.4
5°	1137.0	1137.0	1149.5	1141.7	1132.4
7.5°	1127.7	1127.7	1127.7	1151.0	1127.7
10°	1115.2	1116.8	1118.4	1127.7	1118.4
12.5°	1101.2	1101.2	1104.4	1107.5	1109.0
15°	1079.5	1081.0	1087.2	1093.5	1096.6
17.5°	1056.1	1060.8	1068.6	1076.4	1082.6
20°	1028.1	1034.4	1043.7	1056.1	1062.4
22.5°	998.6	1004.8	1017.3	1031.3	1042.1
25°	967.5	973.7	989.3	1006.4	1018.8
27.5°	931.7	939.5	958.1	981.5	993.9
30°	895.9	905.3	927.0	953.5	967.5
32.5°	858.6	869.5	894.4	923.9	941.0
35°	819.7	830.6	860.2	892.8	913.0
37.5°	779.3	791.7	824.4	861.7	883.5
40°	737.3	751.3	788.6	829.0	853.9
42.5°	695.3	710.8	751.3	799.5	824.4
45°	653.3	670.4	713.9	766.8	794.8
47.5°	609.7	629.9	675.1	734.2	762.2
50°	567.7	588.0	639.3	699.9	727.9
52.5°	524.2	547.5	602.0	664.2	693.7
55°	482.2	505.5	564.6	626.8	657.9
57.5°	440.2	463.5	525.7	589.5	620.6
60°	398.2	423.1	488.4	550.6	583.3
62.5°	356.2	382.6	449.5	513.3	544.4
65°	315.8	343.8	410.6	472.9	505.5
67.5°	276.9	306.4	371.7	432.4	465.1
70°	238.0	267.5	331.3	390.4	423.1
72.5°	200.7	230.2	292.4	345.3	370.2
75°	163.3	194.4	250.4	287.8	303.3
77.5°	127.5	158.7	206.9	231.8	248.9
80°	94.9	121.3	155.5	174.2	180.4
82.5°	65.3	87.1	108.9	113.5	116.7
85°	40.4	51.3	59.1	57.6	57.6
87.5°	18.7	20.2	17.1	12.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)