

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-LD5-32SE-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-LD5-32SE-UNV-L835-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3203.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

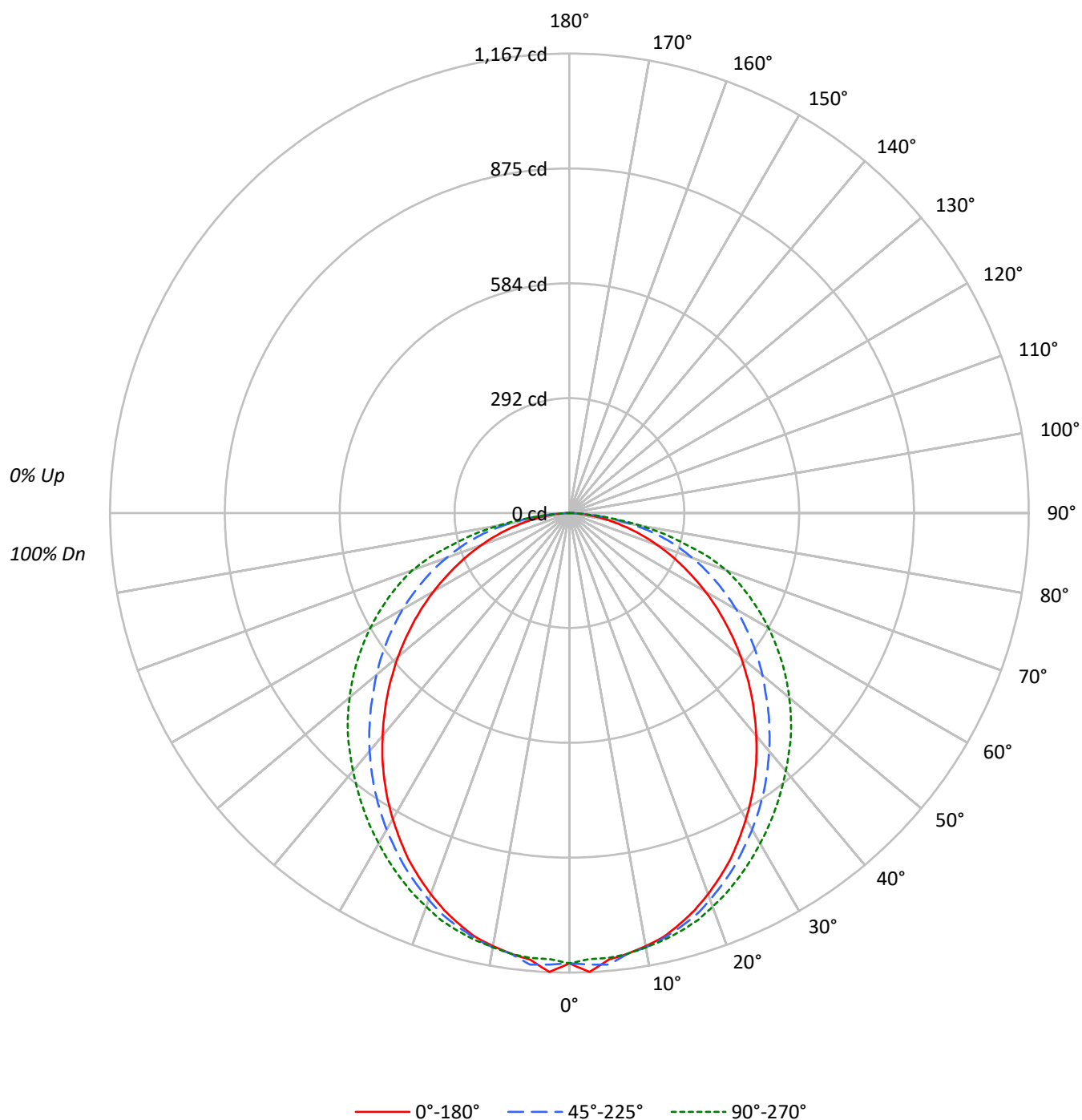
Input Watts (W): 30.53
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3077	3077	3077
5°	3062	3090	3050
10°	3025	3022	3033
15°	2972	2977	3019
20°	2896	2918	2992
25°	2811	2847	2960
30°	2710	2771	2926
35°	2605	2696	2902
40°	2489	2619	2883
45°	2371	2541	2885
50°	2246	2472	2880
55°	2114	2409	2885
60°	1975	2345	2893
65°	1818	2274	2911
70°	1648	2186	2931
75°	1433	2063	2661
80°	1147	1723	2182
85°	796	1011	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.4
10°-20°	307.1	9.6
20°-30°	456.9	14.3
30°-40°	540.4	16.9
40°-50°	555.4	17.3
50°-60°	507.5	15.8
60°-70°	406.0	12.7
70°-80°	254.8	8.0
80°-90°	66.4	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°	872.5	27.2
0°-40°	1412.9	44.1
0°-60°	2475.8	77.3
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1143	1143	1143	1143	1143	
5°	1139	1139	1151	1143	1134	108
15°	1081	1082	1089	1095	1098	304
25°	969	975	991	1008	1020	445
35°	821	832	861	894	914	513
45°	654	671	715	768	796	504
55°	483	506	565	628	659	432
65°	316	344	411	474	506	314
75°	164	195	251	288	304	174
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°	1143.3	1143.3	1143.3	1143.3	1143.3
2.5°	1166.6	1161.9	1147.9	1138.6	1133.9
5°	1138.6	1138.6	1151.0	1143.3	1133.9
7.5°	1129.2	1129.2	1129.2	1152.6	1129.2
10°	1116.8	1118.3	1119.9	1129.2	1119.9
12.5°	1102.8	1102.8	1105.9	1109.0	1110.5
15°	1081.0	1082.5	1088.7	1095.0	1098.1
17.5°	1057.6	1062.3	1070.1	1077.8	1084.1
20°	1029.6	1035.8	1045.1	1057.6	1063.8
22.5°	1000.0	1006.2	1018.7	1032.7	1043.6
25°	968.8	975.0	990.6	1007.7	1020.2
27.5°	933.0	940.8	959.5	982.8	995.3
30°	897.2	906.5	928.3	954.8	968.8
32.5°	859.8	870.7	895.6	925.2	942.3
35°	820.8	831.7	861.3	894.0	914.3
37.5°	780.3	792.8	825.5	862.9	884.7
40°	738.3	752.3	789.7	830.2	855.1
42.5°	696.2	711.8	752.3	800.6	825.5
45°	654.2	671.3	714.9	767.9	795.9
47.5°	610.6	630.8	676.0	735.2	763.2
50°	568.5	588.8	640.2	700.9	728.9
52.5°	524.9	548.3	602.8	665.1	694.7
55°	482.8	506.2	565.4	627.7	658.9
57.5°	440.8	464.2	526.5	590.3	621.5
60°	398.7	423.7	489.1	551.4	584.1
62.5°	356.7	383.2	450.1	514.0	545.2
65°	316.2	344.2	411.2	473.5	506.2
67.5°	277.2	306.8	372.3	433.0	465.7
70°	238.3	267.9	331.8	391.0	423.7
72.5°	200.9	230.5	292.8	345.8	370.7
75°	163.5	194.7	250.8	288.2	303.7
77.5°	127.7	158.9	207.2	232.1	249.2
80°	95.0	121.5	155.8	174.4	180.7
82.5°	65.4	87.2	109.0	113.7	116.8
85°	40.5	51.4	59.2	57.6	57.6
87.5°	18.7	20.2	17.1	12.5	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)