

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-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-LD5-34-UNV-L850-CD1-U
Description: CRUZE 2x2 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

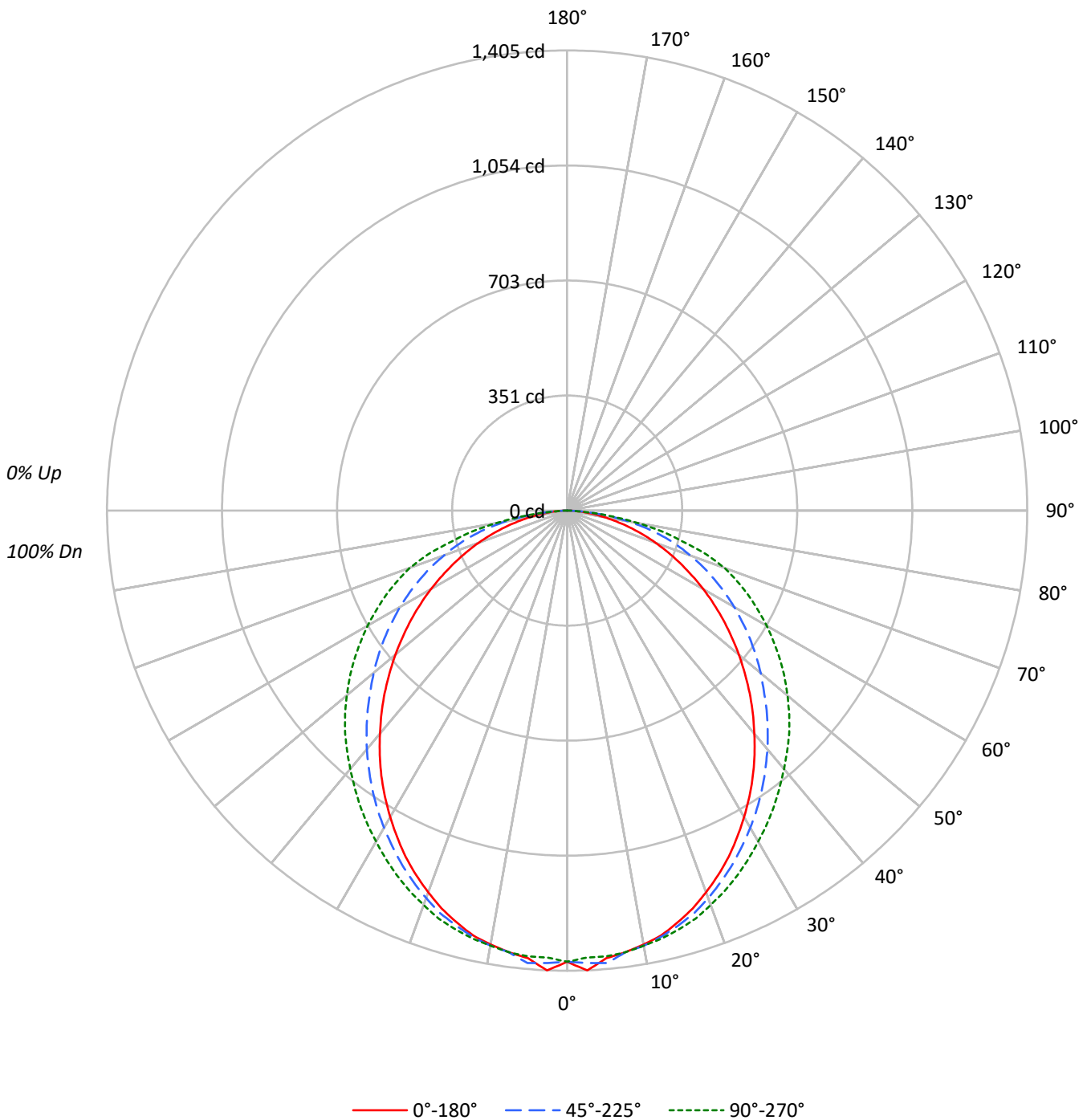
Lumens per Lamp: N/A
Luminaire Lumens: 3858.4 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.4
Input Voltage (V): NR
Input Current (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°	3706	3706	3706
5°	3689	3723	3674
10°	3644	3641	3654
15°	3580	3586	3636
20°	3488	3515	3604
25°	3386	3430	3566
30°	3264	3339	3524
35°	3138	3248	3496
40°	2999	3155	3473
45°	2856	3061	3475
50°	2706	2978	3469
55°	2547	2902	3476
60°	2379	2825	3485
65°	2190	2739	3507
70°	1986	2633	3530
75°	1726	2485	3206
80°	1382	2075	2627
85°	959	1217	1364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.4
10°-20°	370.0	9.6
20°-30°	550.4	14.3
30°-40°	651.0	16.9
40°-50°	669.1	17.3
50°-60°	611.4	15.8
60°-70°	489.1	12.7
70°-80°	306.9	8.0
80°-90°	79.9	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°	1051.0	27.2
0°-40°	1702.0	44.1
0°-60°	2982.4	77.3
0°-90°	3858.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3858.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1377	1377	1377	1377	1377	
5°	1372	1372	1387	1377	1366	130
15°	1302	1304	1312	1319	1323	367
25°	1167	1175	1193	1214	1229	537
35°	989	1002	1038	1077	1101	618
45°	788	809	861	925	959	608
55°	582	610	681	756	794	520
65°	381	415	495	570	610	378
75°	197	234	302	347	366	209
85°	49	62	71	69	69	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.2	1377.2	1377.2	1377.2	1377.2
2.5°	1405.3	1399.7	1382.8	1371.6	1365.9
5°	1371.6	1371.6	1386.6	1377.2	1365.9
7.5°	1360.3	1360.3	1360.3	1388.4	1360.3
10°	1345.3	1347.2	1349.0	1360.3	1349.0
12.5°	1328.4	1328.4	1332.2	1335.9	1337.8
15°	1302.1	1304.0	1311.5	1319.0	1322.8
17.5°	1274.0	1279.6	1289.0	1298.4	1305.9
20°	1240.2	1247.7	1259.0	1274.0	1281.5
22.5°	1204.6	1212.1	1227.1	1244.0	1257.1
25°	1167.0	1174.6	1193.3	1214.0	1229.0
27.5°	1123.9	1133.3	1155.8	1183.9	1198.9
30°	1080.7	1092.0	1118.3	1150.2	1167.0
32.5°	1035.7	1048.8	1078.9	1114.5	1135.1
35°	988.8	1001.9	1037.6	1077.0	1101.4
37.5°	940.0	955.0	994.4	1039.5	1065.7
40°	889.4	906.2	951.3	1000.1	1030.1
42.5°	838.7	857.5	906.2	964.4	994.4
45°	788.0	808.7	861.2	925.0	958.8
47.5°	735.5	759.9	814.3	885.6	919.4
50°	684.8	709.2	771.2	844.3	878.1
52.5°	632.3	660.5	726.1	801.2	836.8
55°	581.6	609.8	681.1	756.1	793.7
57.5°	531.0	559.1	634.2	711.1	748.6
60°	480.3	510.3	589.2	664.2	703.6
62.5°	429.7	461.6	542.2	619.2	656.7
65°	380.9	414.7	495.3	570.4	609.8
67.5°	334.0	369.6	448.4	521.6	561.0
70°	287.1	322.7	399.6	470.9	510.3
72.5°	242.0	277.7	352.7	416.5	446.6
75°	197.0	234.5	302.1	347.1	365.9
77.5°	153.9	191.4	249.5	279.6	300.2
80°	114.5	146.3	187.6	210.1	217.6
82.5°	78.8	105.1	131.3	137.0	140.7
85°	48.8	61.9	71.3	69.4	69.4
87.5°	22.5	24.4	20.6	15.0	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)