

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: P259226

Luminaire Tested: **22CZ-LD5-34-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259226
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-L83050-W2A1-U-4500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3642.0 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

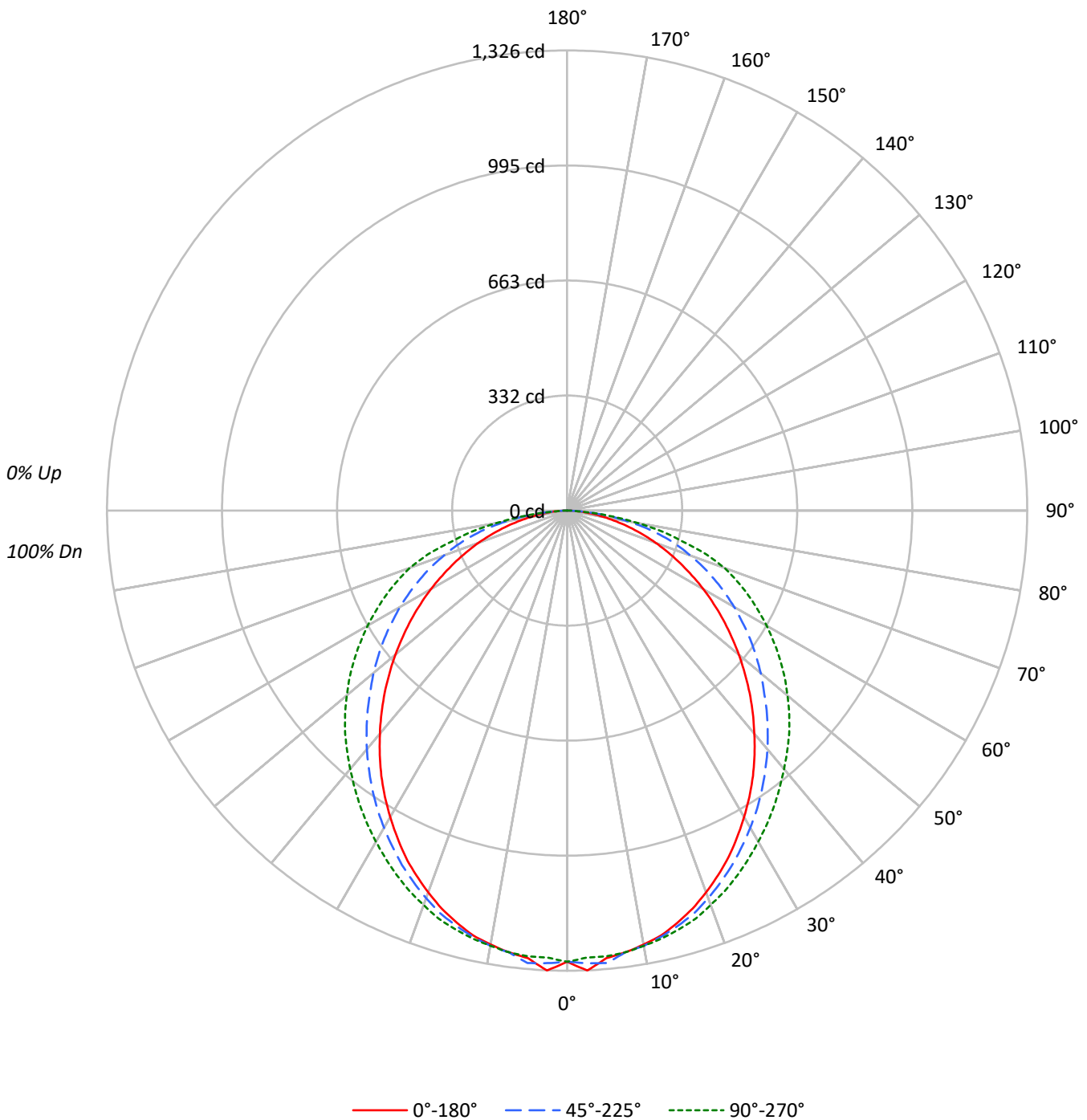
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3498	3498	3498
5°	3497	3535	3483
10°	3470	3480	3480
15°	3424	3449	3478
20°	3353	3403	3464
25°	3271	3344	3444
30°	3170	3280	3423
35°	3066	3217	3415
40°	2949	3154	3416
45°	2831	3094	3444
50°	2706	3047	3470
55°	2576	3016	3515
60°	2440	2993	3574
65°	2289	2977	3665
70°	2132	2968	3790
75°	1934	2964	3591
80°	1674	2744	3183
85°	1420	2078	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.4
10°-20°	349.2	9.6
20°-30°	519.5	14.3
30°-40°	614.5	16.9
40°-50°	631.5	17.3
50°-60°	577.1	15.8
60°-70°	461.7	12.7
70°-80°	289.7	8.0
80°-90°	75.5	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°	992.1	27.2
0°-40°	1606.5	44.1
0°-60°	2815.2	77.3
0°-90°	3642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1300	1300	1300	1300	1300	
5°	1295	1295	1309	1300	1289	123
15°	1229	1231	1238	1245	1249	346
25°	1102	1109	1126	1146	1160	507
35°	933	946	979	1017	1040	583
45°	744	763	813	873	905	574
55°	549	576	643	714	749	491
65°	360	391	468	538	576	357
75°	186	221	285	328	345	198
85°	46	58	67	66	66	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.0	1300.0	1300.0	1300.0	1300.0
2.5°	1326.5	1321.2	1305.3	1294.6	1289.3
5°	1294.6	1294.6	1308.8	1300.0	1289.3
7.5°	1284.0	1284.0	1284.0	1310.6	1284.0
10°	1269.8	1271.6	1273.4	1284.0	1273.4
12.5°	1253.9	1253.9	1257.4	1261.0	1262.8
15°	1229.1	1230.9	1238.0	1245.0	1248.6
17.5°	1202.5	1207.9	1216.7	1225.6	1232.7
20°	1170.7	1177.7	1188.4	1202.5	1209.6
22.5°	1137.0	1144.1	1158.3	1174.2	1186.6
25°	1101.6	1108.7	1126.4	1145.9	1160.0
27.5°	1060.9	1069.7	1091.0	1117.5	1131.7
30°	1020.1	1030.8	1055.5	1085.7	1101.6
32.5°	977.6	990.0	1018.4	1052.0	1071.5
35°	933.3	945.7	979.4	1016.6	1039.6
37.5°	887.3	901.5	938.7	981.2	1006.0
40°	839.5	855.4	897.9	944.0	972.3
42.5°	791.7	809.4	855.4	910.3	938.7
45°	743.8	763.3	812.9	873.1	905.0
47.5°	694.3	717.3	768.6	835.9	867.8
50°	646.4	669.5	727.9	797.0	828.9
52.5°	596.8	623.4	685.4	756.2	789.9
55°	549.0	575.6	642.9	713.7	749.2
57.5°	501.2	527.8	598.6	671.2	706.6
60°	453.4	481.7	556.1	627.0	664.1
62.5°	405.6	435.7	511.8	584.4	619.9
65°	359.5	391.4	467.6	538.4	575.6
67.5°	315.2	348.9	423.3	492.4	529.5
70°	271.0	304.6	377.2	444.5	481.7
72.5°	228.5	262.1	333.0	393.2	421.5
75°	186.0	221.4	285.1	327.6	345.4
77.5°	145.2	180.6	235.5	263.9	283.4
80°	108.0	138.1	177.1	198.4	205.4
82.5°	74.4	99.2	124.0	129.3	132.8
85°	46.0	58.4	67.3	65.5	65.5
87.5°	21.3	23.0	19.5	14.2	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)