

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: P259303

Luminaire Tested: **22CZ-LD5-34-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259303
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-L82765-W2A1-U-6500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3592.0 lumens
Efficiency: N/A
Efficacy: 134.1 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

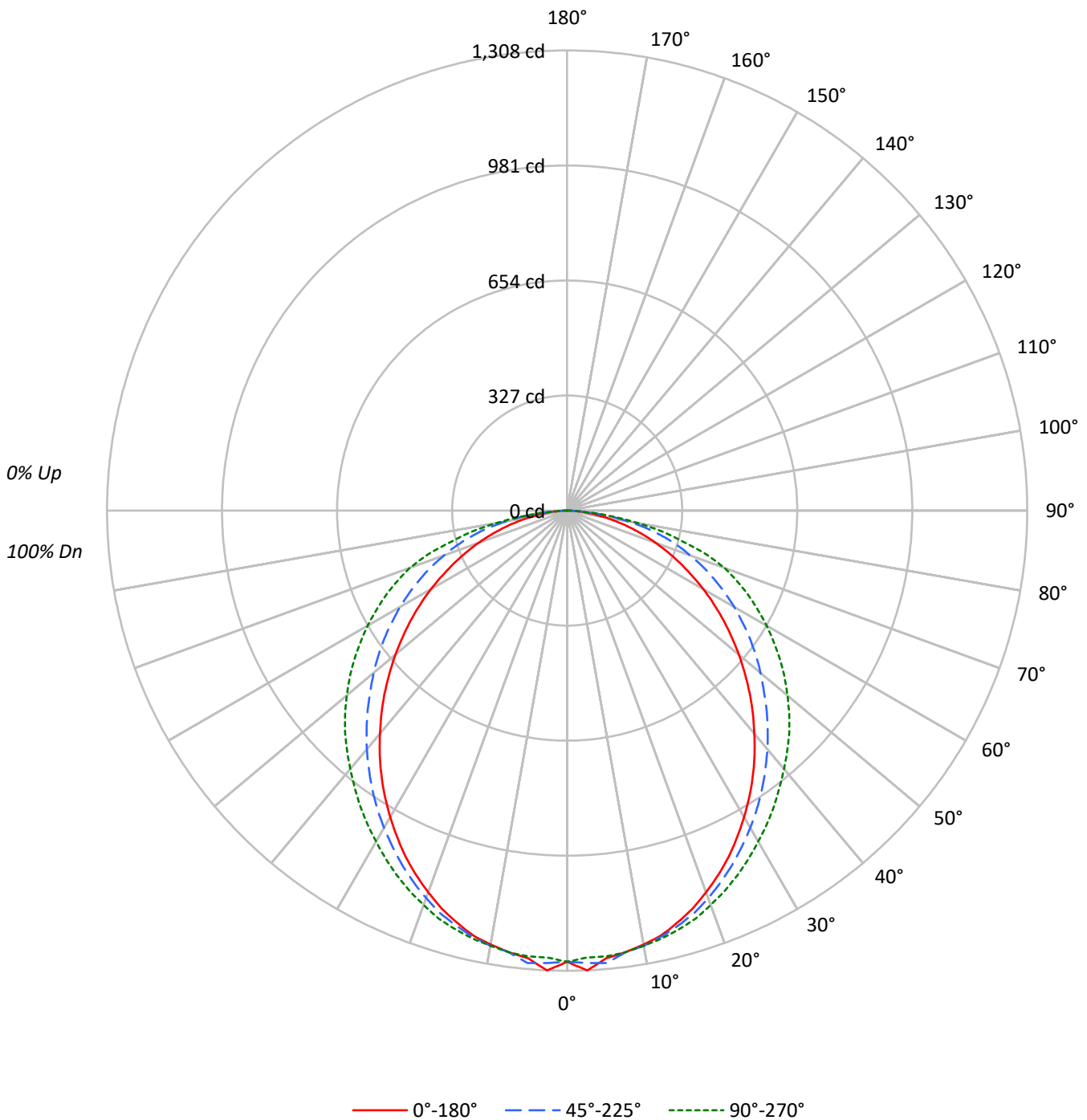
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3450	3450	3450
5°	3449	3487	3435
10°	3422	3432	3432
15°	3377	3402	3431
20°	3306	3357	3416
25°	3226	3298	3397
30°	3126	3235	3376
35°	3024	3173	3368
40°	2909	3111	3369
45°	2792	3051	3397
50°	2669	3005	3422
55°	2540	2975	3467
60°	2407	2952	3525
65°	2258	2936	3615
70°	2103	2928	3738
75°	1907	2924	3541
80°	1652	2707	3140
85°	1402	2050	1995



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.4
10°-20°	344.4	9.6
20°-30°	512.4	14.3
30°-40°	606.0	16.9
40°-50°	622.9	17.3
50°-60°	569.2	15.8
60°-70°	455.3	12.7
70°-80°	285.7	8.0
80°-90°	74.4	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°	978.5	27.2
0°-40°	1584.5	44.1
0°-60°	2776.5	77.3
0°-90°	3592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1282	1282	1282	1282	1282	
5°	1277	1277	1291	1282	1272	121
15°	1212	1214	1221	1228	1232	341
25°	1086	1094	1111	1130	1144	500
35°	920	933	966	1003	1025	575
45°	734	753	802	861	893	566
55°	542	568	634	704	739	484
65°	355	386	461	531	568	352
75°	183	218	281	323	341	195
85°	45	58	66	65	65	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1282.1	1282.1	1282.1	1282.1	1282.1
2.5°	1308.3	1303.1	1287.3	1276.9	1271.6
5°	1276.9	1276.9	1290.8	1282.1	1271.6
7.5°	1266.4	1266.4	1266.4	1292.6	1266.4
10°	1252.4	1254.2	1255.9	1266.4	1255.9
12.5°	1236.7	1236.7	1240.2	1243.7	1245.4
15°	1212.2	1214.0	1221.0	1228.0	1231.5
17.5°	1186.0	1191.3	1200.0	1208.7	1215.7
20°	1154.6	1161.6	1172.1	1186.0	1193.0
22.5°	1121.4	1128.4	1142.4	1158.1	1170.3
25°	1086.5	1093.5	1110.9	1130.1	1144.1
27.5°	1046.3	1055.0	1076.0	1102.2	1116.2
30°	1006.1	1016.6	1041.1	1070.8	1086.5
32.5°	964.2	976.4	1004.4	1037.6	1056.8
35°	920.5	932.8	965.9	1002.6	1025.3
37.5°	875.1	889.1	925.8	967.7	992.1
40°	828.0	843.7	885.6	931.0	959.0
42.5°	780.8	798.3	843.7	897.8	925.8
45°	733.6	752.8	801.8	861.1	892.6
47.5°	684.7	707.4	758.1	824.5	855.9
50°	637.6	660.3	717.9	786.0	817.5
52.5°	588.7	614.9	676.0	745.9	779.0
55°	541.5	567.7	634.1	703.9	738.9
57.5°	494.3	520.5	590.4	662.0	696.9
60°	447.2	475.1	548.5	618.3	655.0
62.5°	400.0	429.7	504.8	576.4	611.4
65°	354.6	386.0	461.1	531.0	567.7
67.5°	310.9	344.1	417.5	485.6	522.3
70°	267.3	300.4	372.1	438.4	475.1
72.5°	225.3	258.5	328.4	387.8	415.7
75°	183.4	218.3	281.2	323.1	340.6
77.5°	143.2	178.2	232.3	260.3	279.5
80°	106.6	136.2	174.7	195.6	202.6
82.5°	73.4	97.8	122.3	127.5	131.0
85°	45.4	57.6	66.4	64.6	64.6
87.5°	21.0	22.7	19.2	14.0	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)