

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: P259363

Luminaire Tested: **22CZ-LD5-39-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259363
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-LD5-39-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3640.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

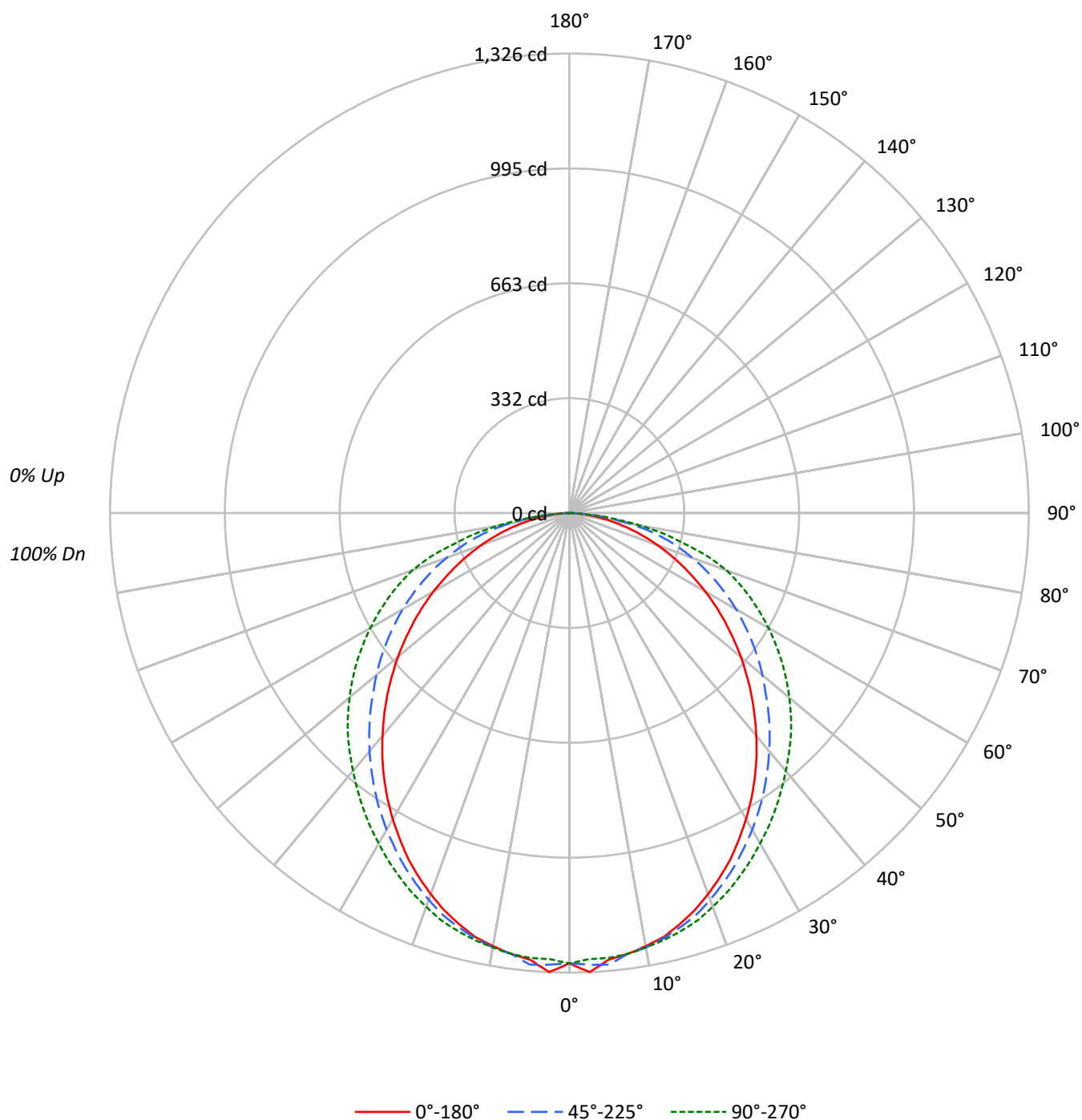
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	104	99	95	106	101	97	94	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	70	64	87	77	69	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	38	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3496	3496	3496
5°	3495	3534	3481
10°	3468	3478	3478
15°	3422	3447	3477
20°	3351	3401	3462
25°	3269	3343	3442
30°	3168	3278	3421
35°	3064	3216	3413
40°	2947	3152	3414
45°	2829	3092	3442
50°	2705	3046	3468
55°	2574	3014	3513
60°	2439	2991	3573
65°	2288	2975	3663
70°	2131	2966	3788
75°	1933	2963	3589
80°	1674	2743	3181
85°	1420	2078	2022



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.4
10°-20°	349.1	9.6
20°-30°	519.3	14.3
30°-40°	614.1	16.9
40°-50°	631.2	17.3
50°-60°	576.8	15.8
60°-70°	461.4	12.7
70°-80°	289.6	8.0
80°-90°	75.4	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°	991.5	27.2
0°-40°	1605.6	44.1
0°-60°	2813.6	77.3
0°-90°	3640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1299	1299	1299	1299	1299	
5°	1294	1294	1308	1299	1289	123
15°	1228	1230	1237	1244	1248	346
25°	1101	1108	1126	1145	1159	506
35°	933	945	979	1016	1039	583
45°	743	763	812	873	904	573
55°	549	575	642	713	749	491
65°	359	391	467	538	575	357
75°	186	221	285	328	345	197
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°	1299.2	1299.2	1299.2	1299.2	1299.2
2.5°	1325.8	1320.5	1304.5	1293.9	1288.6
5°	1293.9	1293.9	1308.1	1299.2	1288.6
7.5°	1283.3	1283.3	1283.3	1309.9	1283.3
10°	1269.1	1270.9	1272.7	1283.3	1272.7
12.5°	1253.2	1253.2	1256.8	1260.3	1262.1
15°	1228.4	1230.2	1237.3	1244.4	1247.9
17.5°	1201.9	1207.2	1216.0	1224.9	1232.0
20°	1170.0	1177.1	1187.7	1201.9	1209.0
22.5°	1136.4	1143.5	1157.6	1173.6	1186.0
25°	1101.0	1108.1	1125.8	1145.2	1159.4
27.5°	1060.3	1069.1	1090.4	1116.9	1131.1
30°	1019.6	1030.2	1055.0	1085.1	1101.0
32.5°	977.1	989.5	1017.8	1051.4	1070.9
35°	932.8	945.2	978.9	1016.0	1039.0
37.5°	886.8	901.0	938.1	980.6	1005.4
40°	839.0	854.9	897.4	943.5	971.8
42.5°	791.2	808.9	854.9	909.8	938.1
45°	743.4	762.9	812.5	872.6	904.5
47.5°	693.9	716.9	768.2	835.5	867.3
50°	646.1	669.1	727.5	796.5	828.4
52.5°	596.5	623.1	685.0	755.8	789.5
55°	548.7	575.3	642.5	713.3	748.7
57.5°	500.9	527.5	598.3	670.9	706.3
60°	453.1	481.5	555.8	626.6	663.8
62.5°	405.3	435.4	511.6	584.1	619.5
65°	359.3	391.2	467.3	538.1	575.3
67.5°	315.1	348.7	423.0	492.1	529.3
70°	270.8	304.5	377.0	444.3	481.5
72.5°	228.3	262.0	332.8	393.0	421.3
75°	185.9	221.3	285.0	327.5	345.2
77.5°	145.1	180.5	235.4	263.7	283.2
80°	108.0	138.1	177.0	198.2	205.3
82.5°	74.3	99.1	123.9	129.2	132.8
85°	46.0	58.4	67.3	65.5	65.5
87.5°	21.2	23.0	19.5	14.2	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)