

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: P276294

Luminaire Tested: **24CZ2-45-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276294  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-45-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3359.2 lumens  
Efficiency: N/A  
Efficacy: 96.3 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

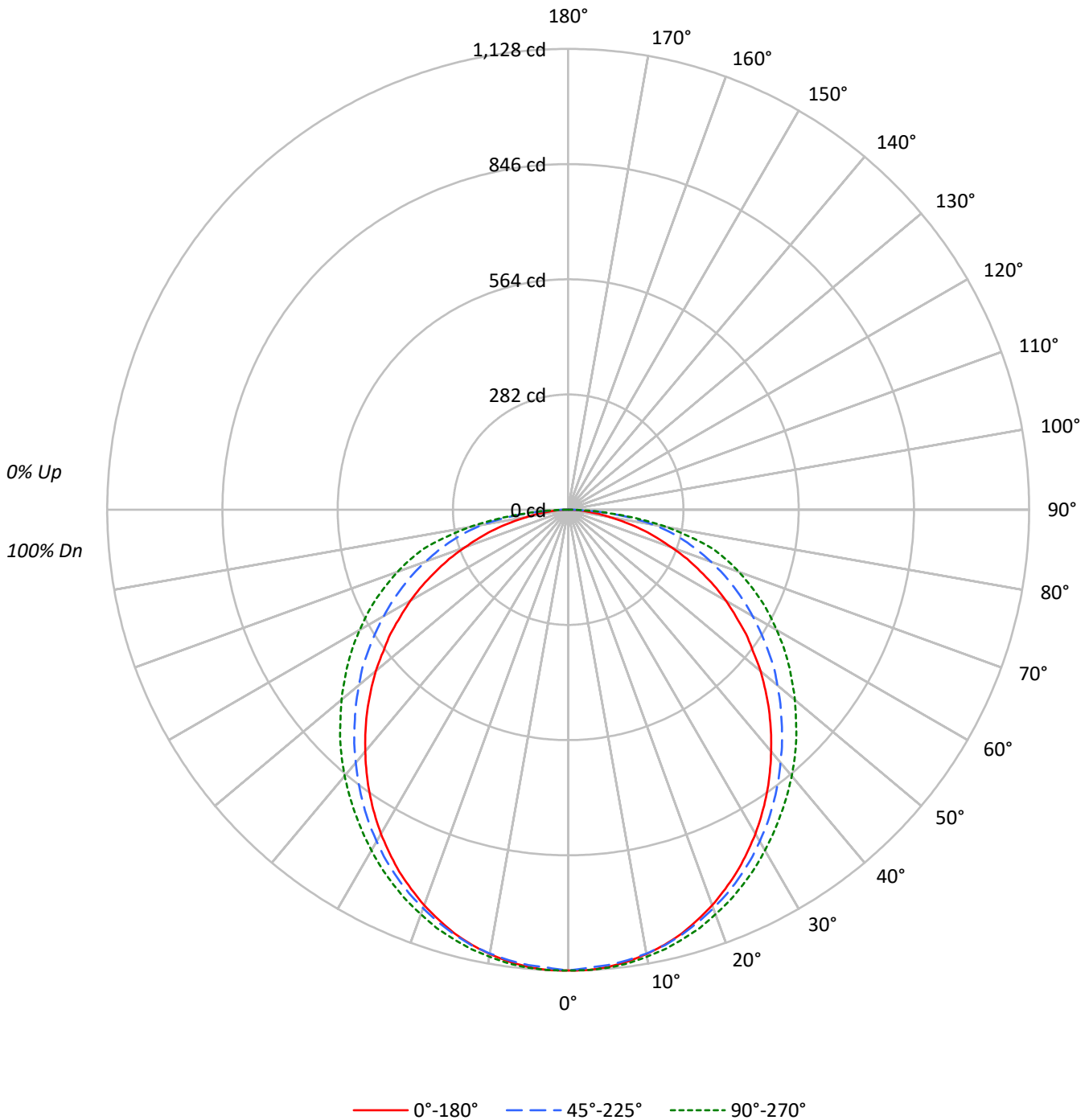
Input Watts (W): 34.875  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1518	1518	1518
5°	1517	1511	1520
10°	1509	1507	1518
15°	1496	1499	1515
20°	1475	1487	1509
25°	1451	1473	1503
30°	1423	1456	1496
35°	1392	1438	1492
40°	1357	1420	1495
45°	1323	1406	1502
50°	1286	1399	1516
55°	1247	1396	1544
60°	1198	1403	1584
65°	1135	1424	1653
70°	1054	1460	1747
75°	962	1533	1894
80°	790	1650	1894
85°	605	1524	1627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	3.2
10°-20°	304.5	9.1
20°-30°	458.3	13.6
30°-40°	549.2	16.3
40°-50°	572.3	17.0
50°-60°	532.5	15.9
60°-70°	438.5	13.1
70°-80°	298.7	8.9
80°-90°	98.6	2.9
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°	869.5	25.9
0°-40°	1418.6	42.2
0°-60°	2523.4	75.1
0°-90°	3359.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3359.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1123	1123	1119	1124	1126	107
15°	1074	1075	1076	1086	1088	303
25°	978	982	992	1009	1012	450
35°	848	858	876	899	908	530
45°	695	710	739	776	789	536
55°	531	549	595	642	658	474
65°	356	387	447	500	519	354
75°	185	226	295	348	364	195
85°	39	76	99	105	105	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1127.9	1127.9	1127.9	1127.9	1127.9
2.5°	1127.9	1127.9	1122.2	1127.9	1127.9
5°	1123.4	1123.4	1118.9	1124.5	1125.6
7.5°	1115.5	1116.6	1112.2	1118.9	1120.0
10°	1104.3	1105.4	1103.2	1109.9	1111.0
12.5°	1090.9	1092.0	1092.0	1099.8	1100.9
15°	1074.0	1075.2	1076.3	1086.4	1087.5
17.5°	1052.7	1056.1	1058.3	1070.7	1072.9
20°	1030.3	1033.7	1038.2	1051.6	1053.9
22.5°	1004.5	1009.0	1016.9	1031.4	1034.8
25°	977.6	982.1	992.2	1009.0	1012.4
27.5°	947.4	954.1	966.4	984.4	988.8
30°	916.0	922.7	937.3	956.3	963.0
32.5°	882.3	891.3	908.1	929.4	936.1
35°	847.6	857.7	875.6	899.1	908.1
37.5°	810.6	821.8	843.1	868.9	880.1
40°	772.5	785.9	808.3	838.6	850.9
42.5°	734.3	746.7	774.7	807.2	820.7
45°	695.1	709.7	738.8	775.8	789.3
47.5°	654.7	669.3	704.1	743.3	755.6
50°	614.4	629.0	668.2	709.7	724.2
52.5°	570.7	589.7	634.6	676.0	690.6
55°	531.4	549.4	595.3	642.4	658.1
57.5°	486.6	507.9	558.3	607.7	624.5
60°	445.1	467.5	521.3	571.8	588.6
62.5°	402.5	427.1	484.3	535.9	555.0
65°	356.5	386.8	447.3	500.0	519.1
67.5°	315.0	346.4	410.3	464.1	481.0
70°	267.9	306.1	371.1	424.9	444.0
72.5°	227.6	265.7	334.1	386.8	405.8
75°	185.0	226.5	294.9	347.5	364.4
77.5°	142.4	188.3	256.7	297.1	302.7
80°	102.0	150.2	213.0	236.6	244.4
82.5°	71.8	115.5	157.0	172.7	177.1
85°	39.2	76.2	98.7	105.4	105.4
87.5°	16.8	32.5	39.2	40.4	41.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)