

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: P276295

Luminaire Tested: **24CZ2-45-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276295
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-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3493.6 lumens
Efficiency: N/A
Efficacy: 101.0 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

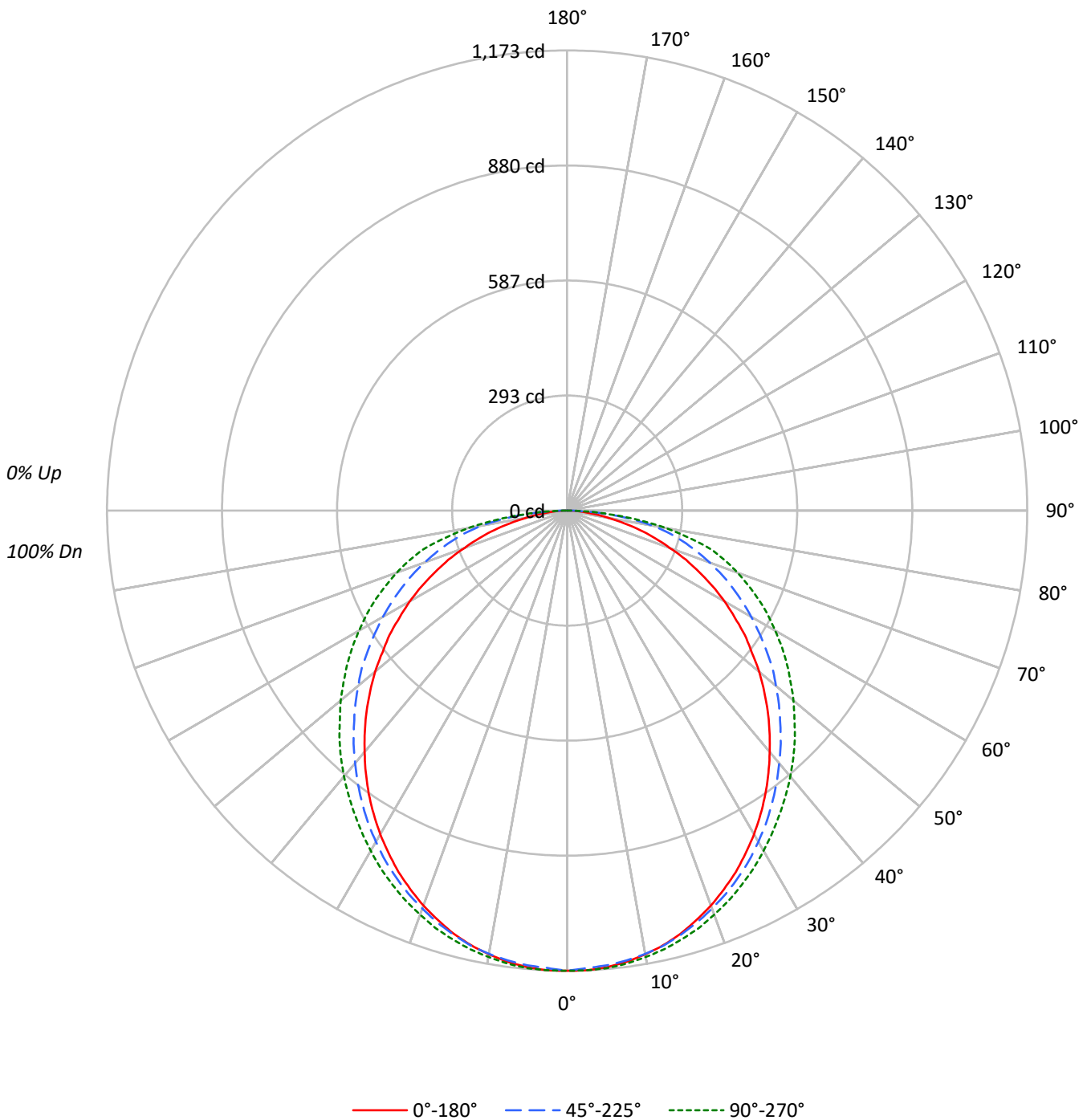
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1578	1578	1578
5°	1578	1572	1581
10°	1569	1567	1579
15°	1556	1559	1575
20°	1534	1546	1569
25°	1509	1532	1563
30°	1480	1514	1556
35°	1448	1496	1551
40°	1411	1477	1554
45°	1376	1462	1562
50°	1337	1455	1577
55°	1297	1452	1605
60°	1246	1459	1647
65°	1181	1481	1719
70°	1096	1518	1816
75°	1000	1594	1970
80°	822	1716	1970
85°	630	1584	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.2
10°-20°	316.7	9.1
20°-30°	476.6	13.6
30°-40°	571.1	16.3
40°-50°	595.2	17.0
50°-60°	553.8	15.9
60°-70°	456.1	13.1
70°-80°	310.6	8.9
80°-90°	102.5	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°	904.2	25.9
0°-40°	1475.4	42.2
0°-60°	2624.3	75.1
0°-90°	3493.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3493.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1173	1173	1173	1173	1173	
5°	1168	1168	1164	1170	1171	111
15°	1117	1118	1119	1130	1131	315
25°	1017	1021	1032	1049	1053	468
35°	882	892	911	935	944	551
45°	723	738	768	807	821	558
55°	553	571	619	668	684	493
65°	371	402	465	520	540	368
75°	192	236	307	361	379	203
85°	41	79	103	110	110	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1173.0	1173.0	1173.0	1173.0	1173.0
2.5°	1173.0	1173.0	1167.1	1173.0	1173.0
5°	1168.3	1168.3	1163.6	1169.5	1170.6
7.5°	1160.1	1161.3	1156.6	1163.6	1164.8
10°	1148.5	1149.6	1147.3	1154.3	1155.5
12.5°	1134.5	1135.6	1135.6	1143.8	1145.0
15°	1117.0	1118.2	1119.3	1129.8	1131.0
17.5°	1094.8	1098.3	1100.7	1113.5	1115.8
20°	1071.5	1075.0	1079.7	1093.7	1096.0
22.5°	1044.7	1049.4	1057.5	1072.7	1076.2
25°	1016.7	1021.4	1031.9	1049.4	1052.9
27.5°	985.2	992.2	1005.1	1023.7	1028.4
30°	952.6	959.6	974.7	994.6	1001.6
32.5°	917.6	926.9	944.4	966.6	973.6
35°	881.5	892.0	910.6	935.1	944.4
37.5°	843.0	854.6	876.8	903.6	915.3
40°	803.3	817.3	840.7	872.1	885.0
42.5°	763.7	776.5	805.7	839.5	853.5
45°	722.9	738.1	768.4	806.8	820.8
47.5°	680.9	696.1	732.2	773.0	785.9
50°	638.9	654.1	694.9	738.1	753.2
52.5°	593.5	613.3	659.9	703.1	718.2
55°	552.7	571.3	619.1	668.1	684.4
57.5°	506.0	528.2	580.6	632.0	649.4
60°	462.9	486.2	542.2	594.6	612.1
62.5°	418.6	444.2	503.7	557.3	577.2
65°	370.8	402.3	465.2	520.0	539.8
67.5°	327.6	360.3	426.7	482.7	500.2
70°	278.7	318.3	385.9	441.9	461.7
72.5°	236.7	276.3	347.5	402.3	422.1
75°	192.4	235.5	306.6	361.4	378.9
77.5°	148.1	195.9	267.0	309.0	314.8
80°	106.1	156.2	221.5	246.0	254.2
82.5°	74.6	120.1	163.2	179.6	184.2
85°	40.8	79.3	102.6	109.6	109.6
87.5°	17.5	33.8	40.8	42.0	43.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)