

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: P276471

Luminaire Tested: **24CZ2-35HE-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276471
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3209.6 lumens
Efficiency: N/A
Efficacy: 132.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

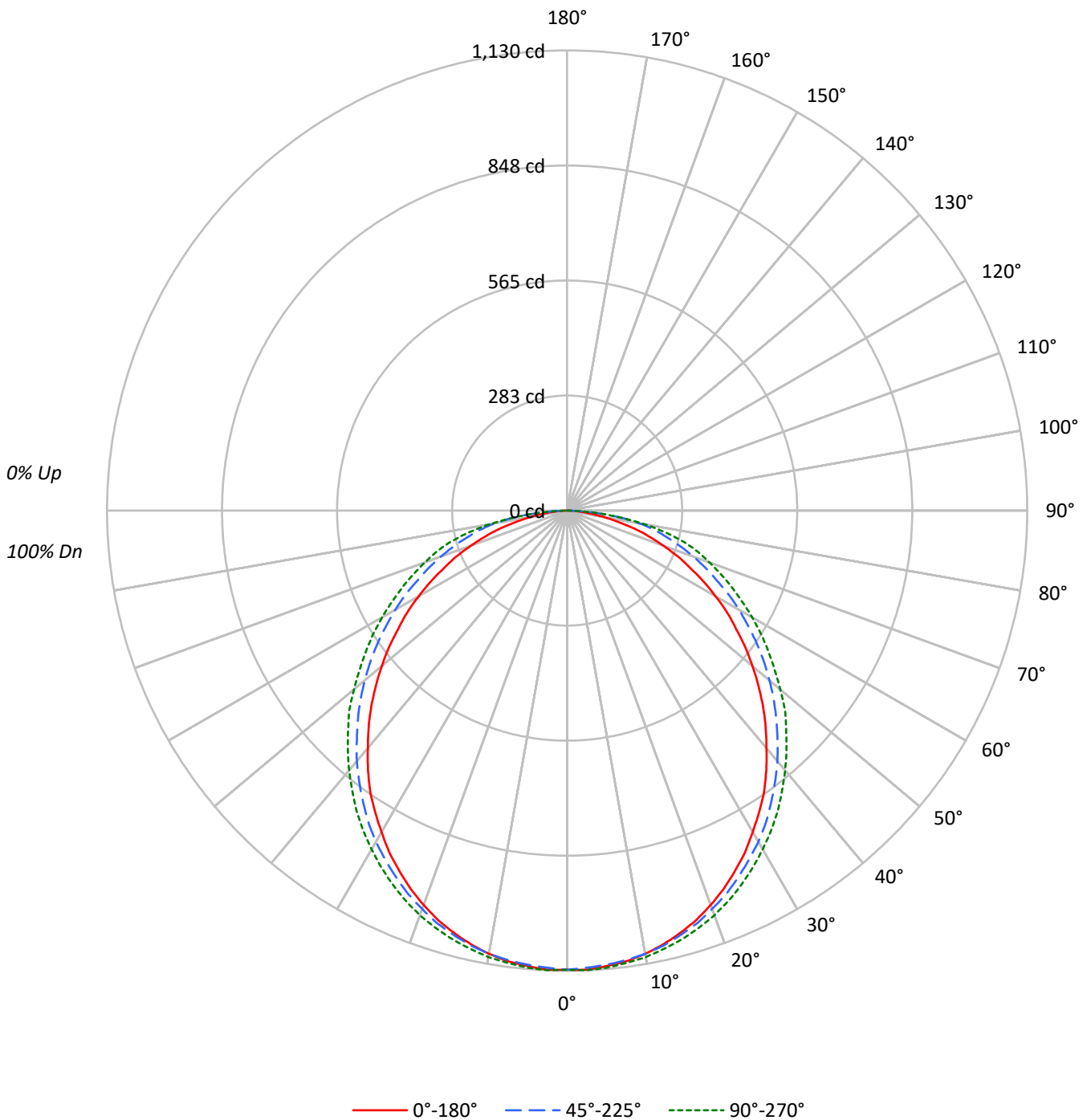
Input Watts (W): 24.18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	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°	1517	1517	1517
5°	1516	1512	1521
10°	1510	1510	1521
15°	1495	1502	1518
20°	1476	1490	1514
25°	1449	1476	1504
30°	1416	1459	1492
35°	1385	1435	1480
40°	1338	1411	1463
45°	1294	1383	1447
50°	1244	1357	1430
55°	1189	1332	1416
60°	1133	1311	1413
65°	1061	1288	1422
70°	983	1295	1460
75°	880	1320	1542
80°	711	1398	1509
85°	536	1227	1196



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.3
10°-20°	305.0	9.5
20°-30°	458.5	14.3
30°-40°	546.1	17.0
40°-50°	559.0	17.4
50°-60°	503.2	15.7
60°-70°	395.2	12.3
70°-80°	256.5	8.0
80°-90°	79.3	2.5
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°	870.3	27.1
0°-40°	1416.4	44.1
0°-60°	2478.6	77.2
0°-90°	3209.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3209.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1122	1124	1119	1126	1126	107
15°	1074	1077	1079	1088	1090	303
25°	976	984	994	1010	1013	449
35°	843	853	874	895	901	526
45°	680	696	727	754	760	524
55°	507	529	568	597	604	454
65°	333	359	405	438	446	332
75°	169	202	254	288	297	179
85°	35	64	80	78	78	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.6	1127.6	1127.6	1127.6	1127.6
2.5°	1128.6	1128.6	1123.5	1128.6	1129.6
5°	1122.5	1124.5	1119.4	1125.5	1126.5
7.5°	1116.3	1116.3	1113.3	1119.4	1120.4
10°	1105.1	1106.1	1105.1	1112.3	1113.3
12.5°	1090.9	1092.9	1093.9	1101.0	1102.1
15°	1073.5	1076.6	1078.6	1087.8	1089.8
17.5°	1054.2	1057.2	1062.3	1072.5	1074.5
20°	1030.7	1034.8	1040.9	1054.2	1057.2
22.5°	1005.2	1009.3	1019.5	1031.7	1036.8
25°	975.7	983.8	994.0	1010.3	1013.4
27.5°	946.1	953.2	966.5	983.8	987.9
30°	911.4	922.6	939.0	956.3	960.4
32.5°	877.8	889.0	908.4	926.7	931.8
35°	843.1	853.3	873.7	895.1	901.2
37.5°	803.4	816.6	839.0	860.4	866.6
40°	761.6	777.9	803.4	825.8	832.9
42.5°	721.8	739.1	764.6	789.1	797.2
45°	680.0	696.3	726.9	754.4	760.5
47.5°	637.2	655.5	688.2	715.7	725.9
50°	594.4	613.7	648.4	676.9	683.1
52.5°	551.5	571.9	608.6	639.2	642.3
55°	506.7	529.1	567.9	597.4	603.5
57.5°	465.9	485.3	527.1	557.7	564.8
60°	421.0	442.5	487.3	515.9	525.0
62.5°	378.2	400.7	447.6	476.1	484.3
65°	333.4	358.9	404.7	438.4	446.5
67.5°	294.6	319.1	368.0	400.7	408.8
70°	249.8	277.3	329.3	362.9	371.1
72.5°	211.0	239.6	291.6	324.2	336.4
75°	169.2	201.9	253.9	288.5	296.7
77.5°	128.5	166.2	219.2	245.7	245.7
80°	91.8	131.5	180.4	192.7	194.7
82.5°	60.1	98.9	133.6	132.5	132.5
85°	34.7	64.2	79.5	77.5	77.5
87.5°	13.3	26.5	28.5	28.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)