

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: P277259

Luminaire Tested: **22CZ2-44HE-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4022.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

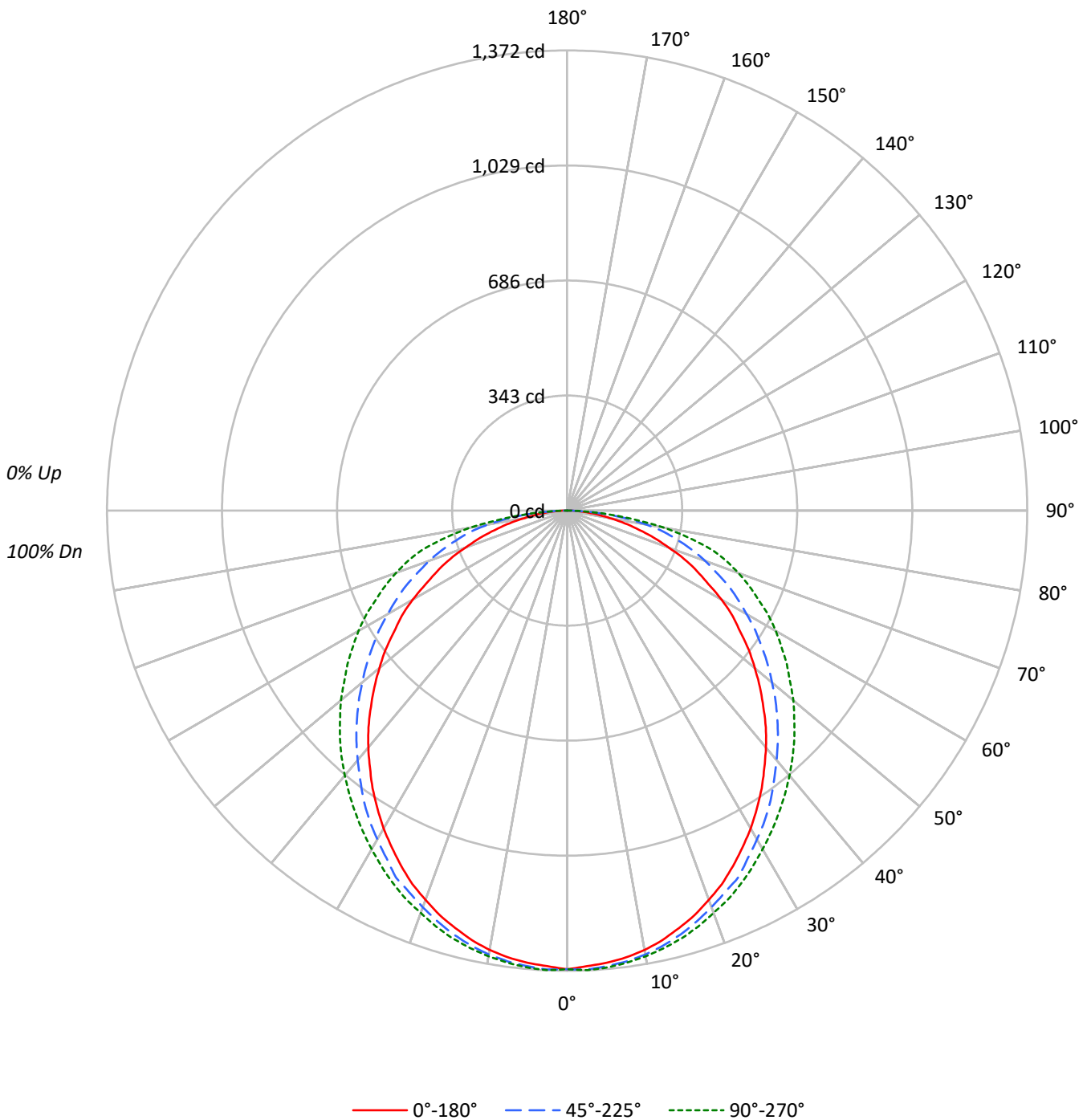
Input Watts (W): 34.782
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3680	3680	3680
5°	3657	3683	3694
10°	3634	3672	3688
15°	3589	3645	3678
20°	3537	3605	3655
25°	3473	3584	3643
30°	3401	3517	3622
35°	3322	3472	3615
40°	3240	3413	3622
45°	3148	3374	3645
50°	3057	3339	3687
55°	2953	3324	3751
60°	2865	3323	3866
65°	2722	3377	4008
70°	2538	3441	4267
75°	2325	3560	4609
80°	2024	3711	4539
85°	1772	3301	3606



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.3	3.2
10°-20°	368.4	9.2
20°-30°	553.0	13.7
30°-40°	660.8	16.4
40°-50°	687.1	17.1
50°-60°	636.9	15.8
60°-70°	522.4	13.0
70°-80°	353.1	8.8
80°-90°	111.0	2.8
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°	1050.7	26.1
0°-40°	1711.5	42.6
0°-60°	3035.5	75.5
0°-90°	4022.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4022.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1368	1368	1368	1368	1368	
5°	1354	1356	1364	1366	1368	128
15°	1288	1294	1308	1316	1320	363
25°	1170	1180	1207	1221	1227	539
35°	1011	1025	1057	1088	1100	632
45°	827	843	887	938	958	639
55°	629	649	708	772	800	566
65°	428	451	530	600	629	423
75°	224	261	342	412	443	237
85°	57	79	107	119	117	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1367.6	1367.6	1367.6	1367.6	1367.6
2.5°	1359.6	1363.6	1369.5	1371.5	1371.5
5°	1353.7	1355.7	1363.6	1365.6	1367.6
7.5°	1343.8	1347.8	1355.7	1357.7	1359.6
10°	1330.0	1333.9	1343.8	1347.8	1349.7
12.5°	1312.1	1316.1	1328.0	1333.9	1335.9
15°	1288.4	1294.3	1308.2	1316.1	1320.1
17.5°	1264.6	1270.6	1284.4	1296.3	1300.3
20°	1235.0	1248.8	1258.7	1274.5	1276.5
22.5°	1205.3	1213.2	1231.0	1246.8	1254.7
25°	1169.6	1179.5	1207.2	1221.1	1227.0
27.5°	1132.0	1145.9	1167.7	1189.4	1197.4
30°	1094.4	1104.3	1132.0	1157.8	1165.7
32.5°	1052.9	1066.7	1096.4	1122.1	1134.0
35°	1011.3	1025.2	1056.8	1088.5	1100.4
37.5°	965.8	981.6	1013.3	1050.9	1066.7
40°	922.3	934.1	971.7	1017.3	1031.1
42.5°	876.7	890.6	930.2	979.7	995.5
45°	827.3	843.1	886.6	938.1	957.9
47.5°	779.8	795.6	843.1	894.6	918.3
50°	730.3	750.1	797.6	856.9	880.7
52.5°	682.8	700.6	754.0	815.4	837.2
55°	629.4	649.1	708.5	771.8	799.6
57.5°	585.8	599.7	665.0	730.3	758.0
60°	532.4	550.2	617.5	686.7	718.4
62.5°	475.0	504.7	573.9	645.2	676.9
65°	427.5	451.2	530.4	599.7	629.4
67.5°	378.0	403.7	480.9	554.1	587.8
70°	322.6	356.2	437.4	510.6	542.3
72.5°	273.1	308.7	391.9	463.1	496.8
75°	223.6	261.2	342.4	411.7	443.3
77.5°	176.1	217.7	296.9	350.3	370.1
80°	130.6	170.2	239.5	277.1	292.9
82.5°	91.0	124.7	176.1	195.9	199.9
85°	57.4	79.2	106.9	118.7	116.8
87.5°	25.7	31.7	39.6	43.5	41.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)