

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: P277262

Luminaire Tested: **22CZ2-44HE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277262  
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-5000K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4240.0 lumens  
Efficiency: N/A  
Efficacy: 119.7 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

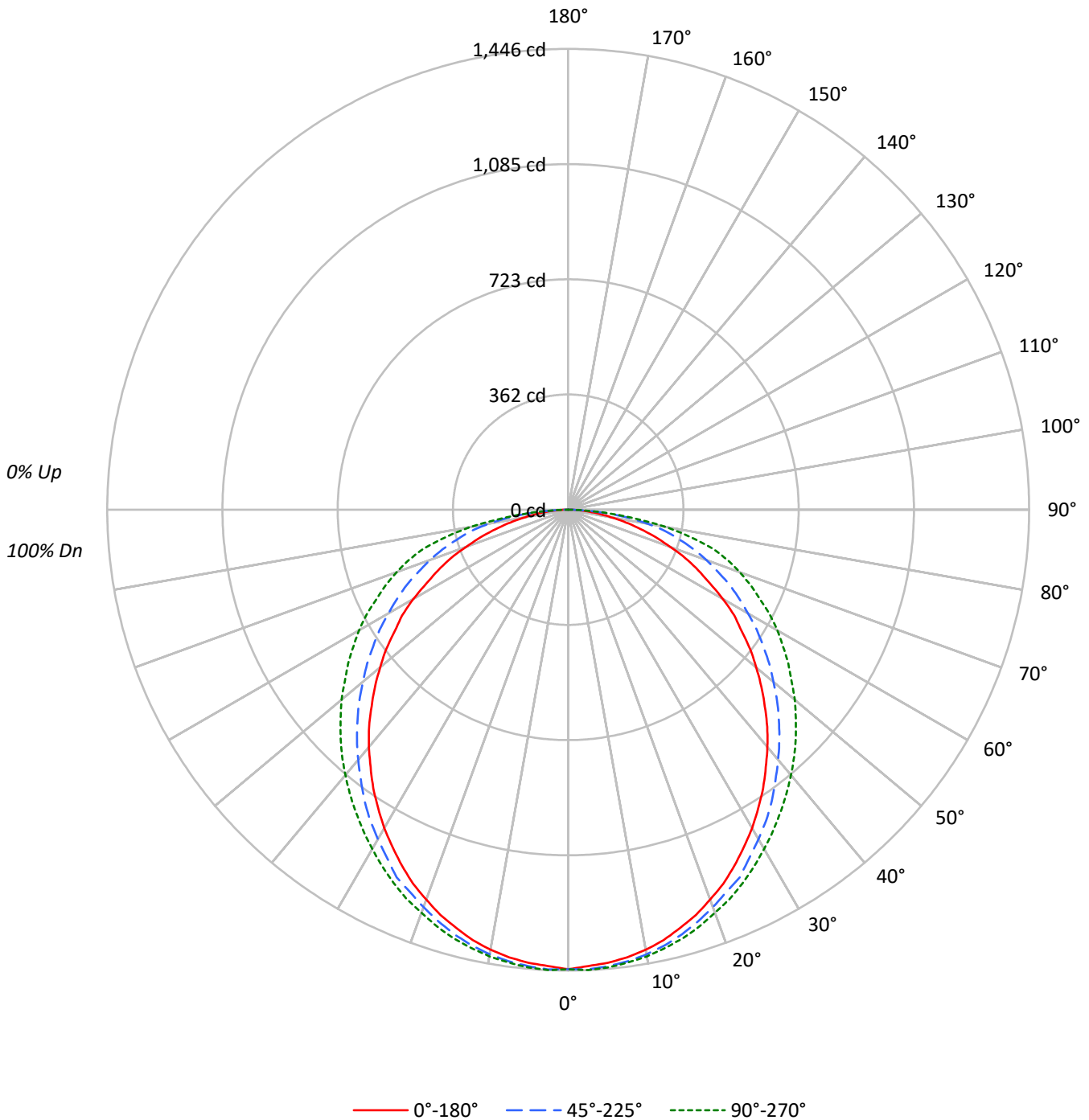
Input Watts (W): 35.433  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3880	3880	3880
5°	3855	3883	3894
10°	3831	3871	3888
15°	3784	3842	3877
20°	3728	3800	3854
25°	3661	3779	3841
30°	3585	3708	3819
35°	3502	3660	3811
40°	3415	3599	3818
45°	3319	3557	3843
50°	3223	3520	3887
55°	3113	3504	3955
60°	3020	3503	4076
65°	2870	3560	4225
70°	2676	3628	4498
75°	2452	3752	4859
80°	2134	3913	4785
85°	1868	3480	3801



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.3	3.2
10°-20°	388.3	9.2
20°-30°	583.0	13.7
30°-40°	696.6	16.4
40°-50°	724.4	17.1
50°-60°	671.4	15.8
60°-70°	550.7	13.0
70°-80°	372.3	8.8
80°-90°	117.0	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°	1107.7	26.1
0°-40°	1804.3	42.6
0°-60°	3200.1	75.5
0°-90°	4240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1442	1442	1442	1442	1442	
5°	1427	1429	1438	1440	1442	135
15°	1358	1364	1379	1387	1392	383
25°	1233	1244	1273	1287	1294	568
35°	1066	1081	1114	1148	1160	666
45°	872	889	935	989	1010	673
55°	664	684	747	814	843	596
65°	451	476	559	632	664	445
75°	236	275	361	434	467	250
85°	60	84	113	125	123	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1441.7	1441.7	1441.7	1441.7	1441.7
2.5°	1433.3	1437.5	1443.8	1445.9	1445.9
5°	1427.1	1429.2	1437.5	1439.6	1441.7
7.5°	1416.6	1420.8	1429.2	1431.2	1433.3
10°	1402.0	1406.2	1416.6	1420.8	1422.9
12.5°	1383.3	1387.4	1400.0	1406.2	1408.3
15°	1358.2	1364.5	1379.1	1387.4	1391.6
17.5°	1333.2	1339.4	1354.1	1366.6	1370.7
20°	1301.9	1316.5	1326.9	1343.6	1345.7
22.5°	1270.6	1278.9	1297.7	1314.4	1322.8
25°	1233.0	1243.5	1272.7	1287.3	1293.5
27.5°	1193.4	1208.0	1231.0	1253.9	1262.3
30°	1153.8	1164.2	1193.4	1220.5	1228.9
32.5°	1109.9	1124.6	1155.8	1183.0	1195.5
35°	1066.1	1080.7	1114.1	1147.5	1160.0
37.5°	1018.1	1034.8	1068.2	1107.9	1124.6
40°	972.2	984.8	1024.4	1072.4	1087.0
42.5°	924.3	938.9	980.6	1032.8	1049.4
45°	872.1	888.8	934.7	988.9	1009.8
47.5°	822.0	838.7	888.8	943.0	968.1
50°	769.9	790.7	840.8	903.4	928.4
52.5°	719.8	738.6	794.9	859.6	882.5
55°	663.5	684.3	746.9	813.7	842.9
57.5°	617.6	632.2	701.0	769.9	799.1
60°	561.2	580.0	650.9	724.0	757.4
62.5°	500.7	532.0	605.0	680.2	713.5
65°	450.7	475.7	559.1	632.2	663.5
67.5°	398.5	425.6	507.0	584.2	619.7
70°	340.1	375.5	461.1	538.3	571.7
72.5°	287.9	325.5	413.1	488.2	523.7
75°	235.8	275.4	360.9	434.0	467.3
77.5°	185.7	229.5	313.0	369.3	390.2
80°	137.7	179.4	252.5	292.1	308.8
82.5°	96.0	131.4	185.7	206.6	210.7
85°	60.5	83.5	112.7	125.2	123.1
87.5°	27.1	33.4	41.7	45.9	43.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)