

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: P277265

Luminaire Tested: **22CZ2-44HE-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277265  
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-6500K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4304.0 lumens  
Efficiency: N/A  
Efficacy: 119.0 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

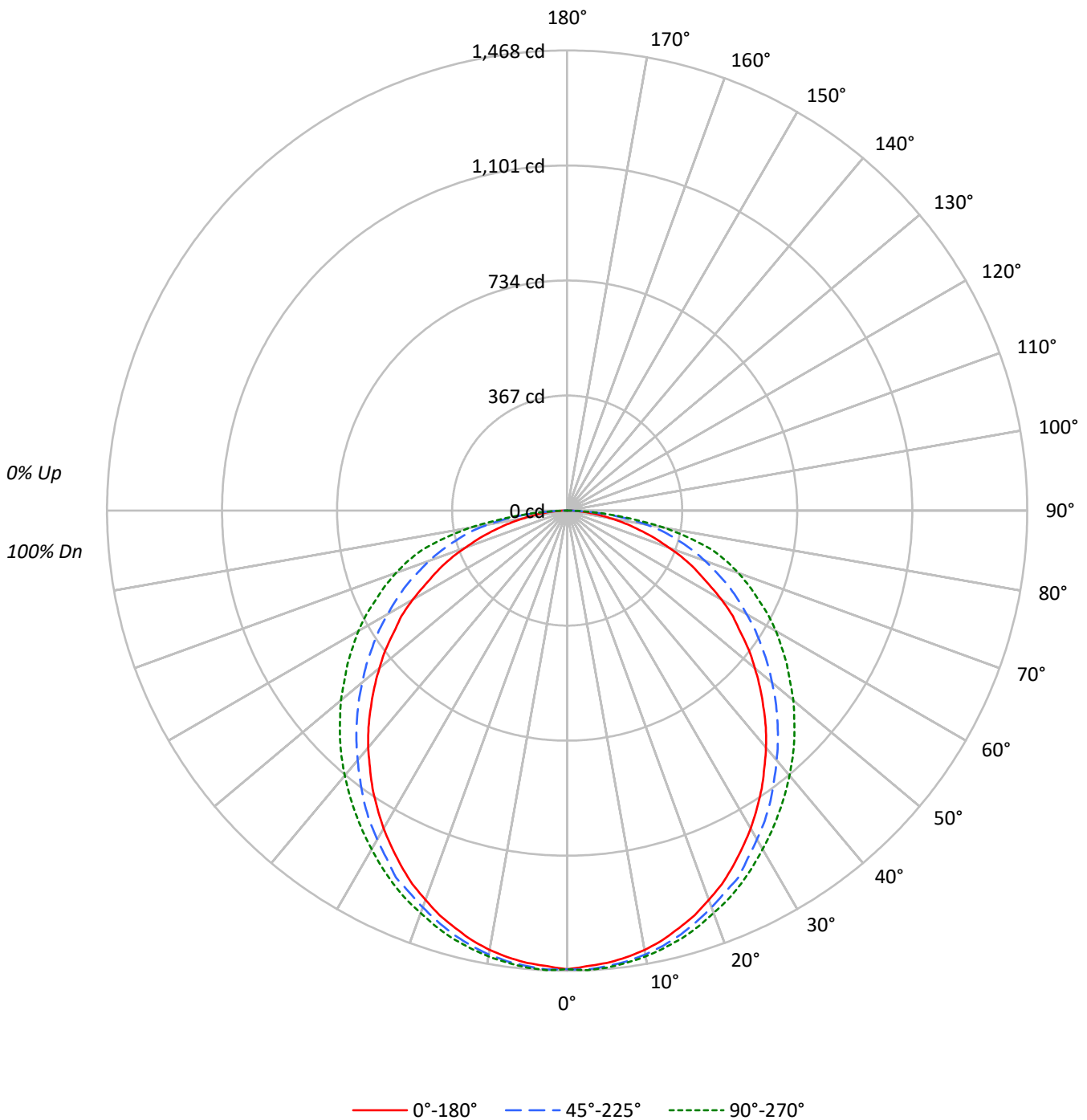
Input Watts (W): 36.177  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3938	3938	3938
5°	3913	3942	3953
10°	3889	3929	3947
15°	3841	3900	3935
20°	3784	3857	3912
25°	3717	3836	3899
30°	3639	3764	3876
35°	3555	3715	3868
40°	3467	3653	3876
45°	3369	3611	3901
50°	3272	3573	3945
55°	3160	3557	4014
60°	3066	3556	4138
65°	2913	3614	4288
70°	2716	3682	4566
75°	2488	3810	4932
80°	2166	3972	4857
85°	1896	3532	3859



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.4	3.2
10°-20°	394.2	9.2
20°-30°	591.8	13.7
30°-40°	707.1	16.4
40°-50°	735.3	17.1
50°-60°	681.5	15.8
60°-70°	559.0	13.0
70°-80°	377.9	8.8
80°-90°	118.8	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°	1124.4	26.1
0°-40°	1831.5	42.6
0°-60°	3248.4	75.5
0°-90°	4304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4304.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1449	1451	1459	1461	1463	137
15°	1379	1385	1400	1408	1413	389
25°	1252	1262	1292	1307	1313	576
35°	1082	1097	1131	1165	1178	676
45°	885	902	949	1004	1025	684
55°	674	695	758	826	856	605
65°	458	483	568	642	674	452
75°	239	280	366	440	474	254
85°	61	85	114	127	125	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1463.4	1463.4	1463.4	1463.4	1463.4
2.5°	1455.0	1459.2	1465.6	1467.7	1467.7
5°	1448.6	1450.7	1459.2	1461.3	1463.4
7.5°	1438.0	1442.3	1450.7	1452.9	1455.0
10°	1423.2	1427.4	1438.0	1442.3	1444.4
12.5°	1404.1	1408.4	1421.1	1427.4	1429.6
15°	1378.7	1385.1	1399.9	1408.4	1412.6
17.5°	1353.3	1359.7	1374.5	1387.2	1391.4
20°	1321.5	1336.4	1347.0	1363.9	1366.0
22.5°	1289.8	1298.2	1317.3	1334.3	1342.7
25°	1251.7	1262.2	1291.9	1306.7	1313.1
27.5°	1211.4	1226.2	1249.5	1272.8	1281.3
30°	1171.2	1181.8	1211.4	1238.9	1247.4
32.5°	1126.7	1141.5	1173.3	1200.8	1213.5
35°	1082.2	1097.1	1130.9	1164.8	1177.5
37.5°	1033.5	1050.5	1084.3	1124.6	1141.5
40°	986.9	999.6	1039.9	1088.6	1103.4
42.5°	938.2	953.0	995.4	1048.3	1065.3
45°	885.3	902.2	948.8	1003.9	1025.0
47.5°	834.4	851.4	902.2	957.3	982.7
50°	781.5	802.7	853.5	917.0	942.4
52.5°	730.7	749.7	806.9	872.6	895.9
55°	673.5	694.7	758.2	826.0	855.6
57.5°	626.9	641.7	711.6	781.5	811.1
60°	569.7	588.8	660.8	734.9	768.8
62.5°	508.3	540.1	614.2	690.4	724.3
65°	457.5	482.9	567.6	641.7	673.5
67.5°	404.5	432.0	514.6	593.0	629.0
70°	345.2	381.2	468.0	546.4	580.3
72.5°	292.3	330.4	419.3	495.6	531.6
75°	239.3	279.6	366.4	440.5	474.4
77.5°	188.5	233.0	317.7	374.9	396.0
80°	139.8	182.1	256.3	296.5	313.4
82.5°	97.4	133.4	188.5	209.7	213.9
85°	61.4	84.7	114.4	127.1	125.0
87.5°	27.5	33.9	42.4	46.6	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)