

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: P277264

Luminaire Tested: **22CZ2-44HE-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277264  
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-5700K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4293.0 lumens  
Efficiency: N/A  
Efficacy: 120.8 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

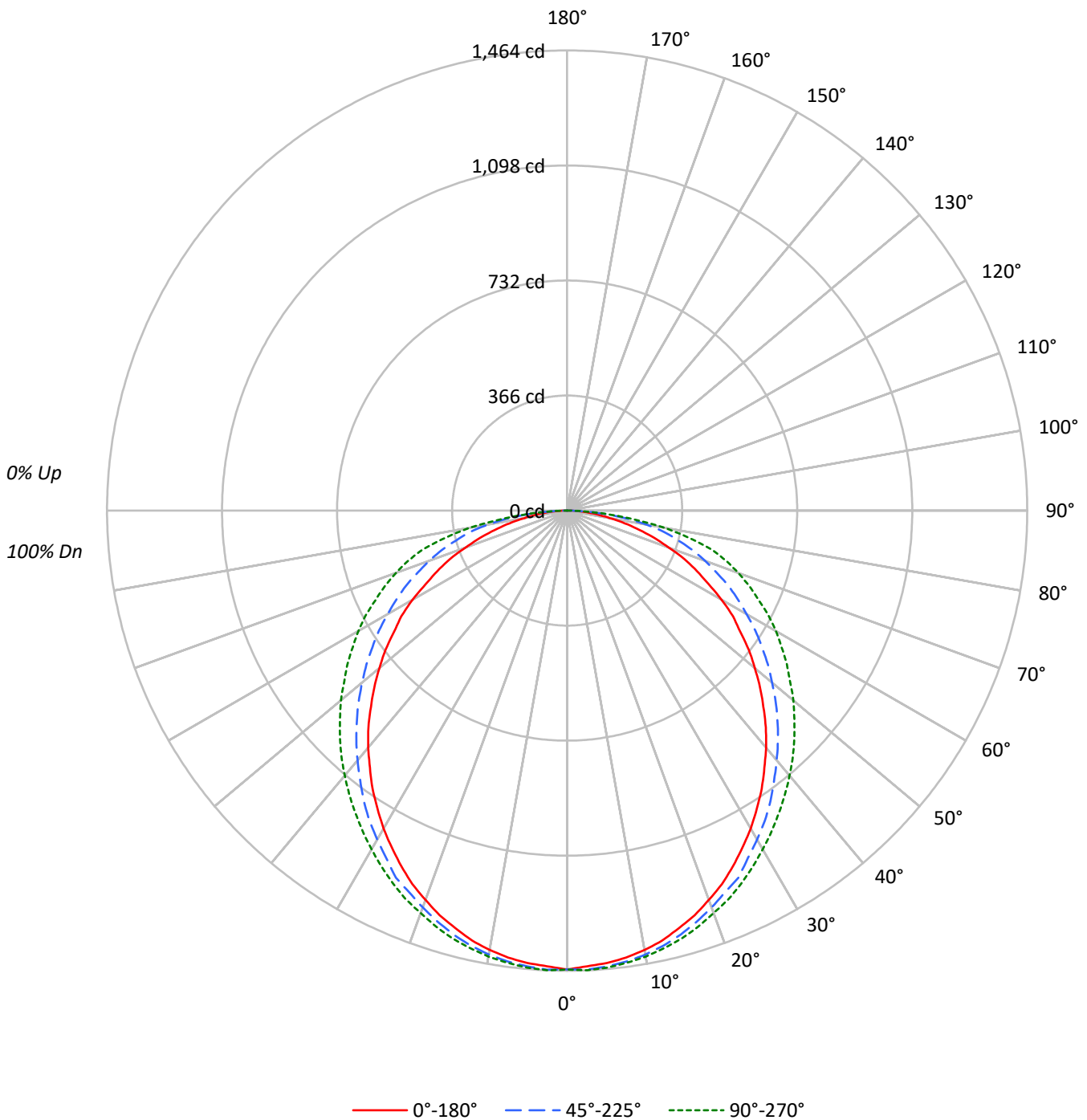
Input Watts (W): 35.526  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3928	3928	3928
5°	3903	3932	3943
10°	3879	3919	3937
15°	3831	3890	3925
20°	3775	3847	3902
25°	3707	3826	3889
30°	3630	3755	3866
35°	3546	3706	3858
40°	3458	3644	3866
45°	3360	3602	3891
50°	3263	3564	3935
55°	3152	3548	4004
60°	3058	3547	4127
65°	2905	3605	4278
70°	2709	3674	4554
75°	2482	3800	4920
80°	2160	3961	4844
85°	1893	3523	3847



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	138.0	3.2
10°-20°	393.2	9.2
20°-30°	590.3	13.7
30°-40°	705.3	16.4
40°-50°	733.4	17.1
50°-60°	679.8	15.8
60°-70°	557.6	13.0
70°-80°	376.9	8.8
80°-90°	118.4	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°	1121.5	26.1
0°-40°	1826.8	42.6
0°-60°	3240.1	75.5
0°-90°	4293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4293.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1460	1460	1460	1460	1460	
5°	1445	1447	1456	1458	1460	137
15°	1375	1382	1396	1405	1409	388
25°	1248	1259	1289	1303	1310	575
35°	1080	1094	1128	1162	1174	675
45°	883	900	946	1001	1022	682
55°	672	693	756	824	853	604
65°	456	482	566	640	672	451
75°	239	279	366	439	473	253
85°	61	84	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°	1459.7	1459.7	1459.7	1459.7	1459.7
2.5°	1451.2	1455.5	1461.8	1463.9	1463.9
5°	1444.9	1447.0	1455.5	1457.6	1459.7
7.5°	1434.3	1438.6	1447.0	1449.1	1451.2
10°	1419.6	1423.8	1434.3	1438.6	1440.7
12.5°	1400.6	1404.8	1417.5	1423.8	1425.9
15°	1375.2	1381.5	1396.3	1404.8	1409.0
17.5°	1349.9	1356.2	1371.0	1383.7	1387.9
20°	1318.2	1333.0	1343.5	1360.4	1362.5
22.5°	1286.5	1294.9	1313.9	1330.8	1339.3
25°	1248.5	1259.0	1288.6	1303.4	1309.7
27.5°	1208.3	1223.1	1246.3	1269.6	1278.0
30°	1168.2	1178.7	1208.3	1235.8	1244.2
32.5°	1123.8	1138.6	1170.3	1197.8	1210.4
35°	1079.5	1094.2	1128.0	1161.8	1174.5
37.5°	1030.9	1047.8	1081.6	1121.7	1138.6
40°	984.4	997.1	1037.2	1085.8	1100.6
42.5°	935.8	950.6	992.8	1045.7	1062.6
45°	883.0	899.9	946.4	1001.3	1022.4
47.5°	832.3	849.2	899.9	954.8	980.2
50°	779.5	800.6	851.3	914.7	940.0
52.5°	728.8	747.8	804.8	870.3	893.6
55°	671.8	692.9	756.3	823.9	853.4
57.5°	625.3	640.1	709.8	779.5	809.1
60°	568.2	587.3	659.1	733.0	766.8
62.5°	507.0	538.7	612.6	688.7	722.5
65°	456.3	481.6	566.1	640.1	671.8
67.5°	403.5	430.9	513.3	591.5	627.4
70°	344.3	380.2	466.9	545.0	578.8
72.5°	291.5	329.5	418.3	494.3	530.2
75°	238.7	278.8	365.5	439.4	473.2
77.5°	188.0	232.4	316.9	373.9	395.0
80°	139.4	181.7	255.6	295.7	312.6
82.5°	97.2	133.1	188.0	209.1	213.4
85°	61.3	84.5	114.1	126.7	124.6
87.5°	27.5	33.8	42.2	46.5	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)