

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: P277316

Luminaire Tested: **22CZ2-44HE-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277316
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3806.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

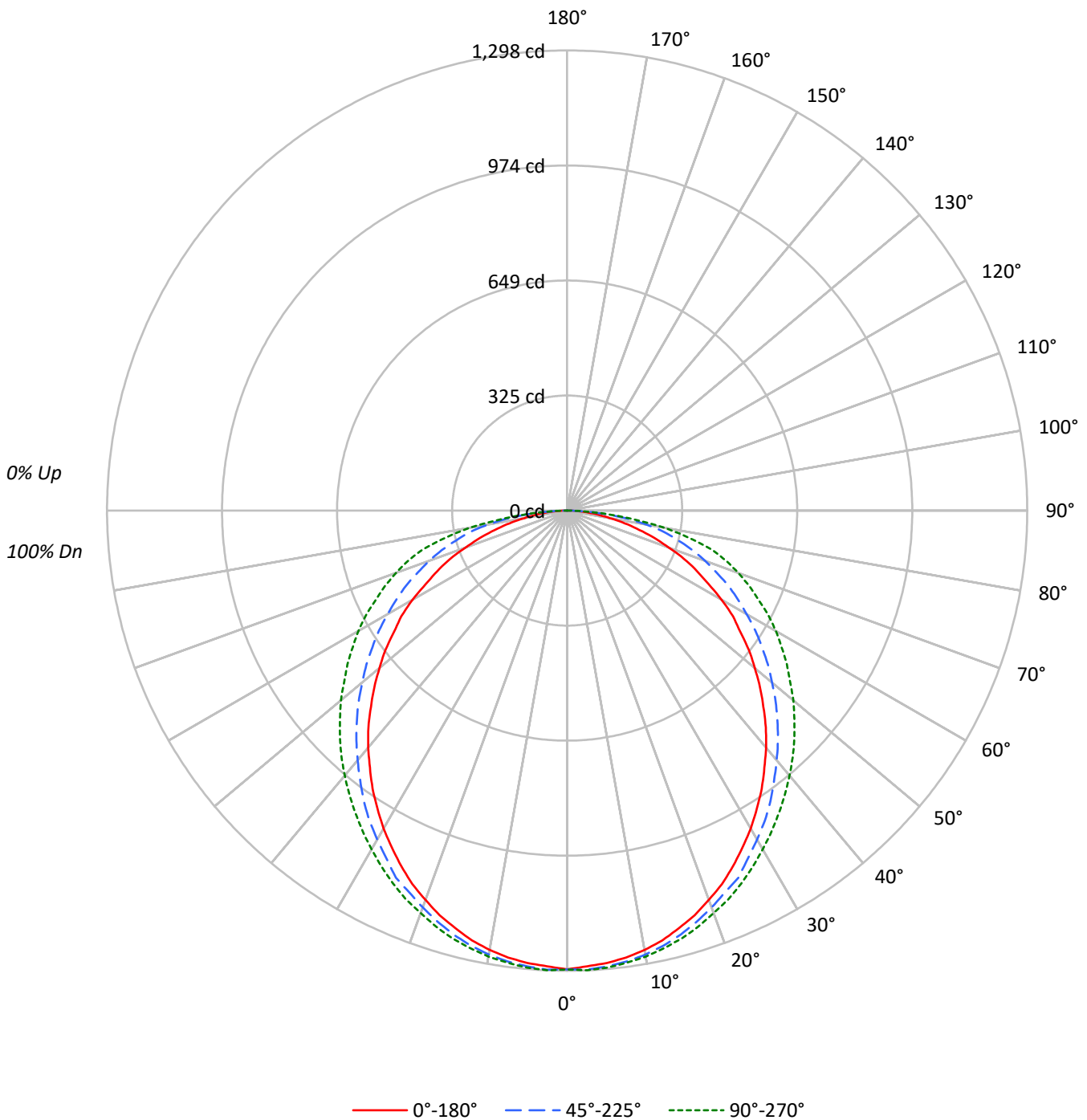
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3482	3482	3482
5°	3460	3486	3496
10°	3439	3475	3490
15°	3397	3449	3480
20°	3346	3411	3459
25°	3286	3392	3447
30°	3218	3329	3428
35°	3144	3285	3421
40°	3066	3230	3427
45°	2979	3193	3449
50°	2893	3159	3489
55°	2794	3146	3550
60°	2711	3145	3659
65°	2576	3196	3792
70°	2402	3257	4037
75°	2200	3369	4362
80°	1915	3512	4296
85°	1677	3122	3412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.2
10°-20°	348.6	9.2
20°-30°	523.3	13.7
30°-40°	625.3	16.4
40°-50°	650.2	17.1
50°-60°	602.7	15.8
60°-70°	494.3	13.0
70°-80°	334.2	8.8
80°-90°	105.0	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°	994.3	26.1
0°-40°	1619.6	42.6
0°-60°	2872.5	75.5
0°-90°	3806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1281	1283	1290	1292	1294	122
15°	1219	1225	1238	1245	1249	344
25°	1107	1116	1142	1156	1161	510
35°	957	970	1000	1030	1041	598
45°	783	798	839	888	906	605
55°	596	614	670	730	757	535
65°	404	427	502	568	596	400
75°	212	247	324	390	420	224
85°	54	75	101	112	110	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.1	1294.1	1294.1	1294.1	1294.1
2.5°	1286.6	1290.4	1296.0	1297.9	1297.9
5°	1281.0	1282.9	1290.4	1292.2	1294.1
7.5°	1271.6	1275.4	1282.9	1284.7	1286.6
10°	1258.5	1262.3	1271.6	1275.4	1277.3
12.5°	1241.7	1245.4	1256.7	1262.3	1264.1
15°	1219.2	1224.8	1237.9	1245.4	1249.2
17.5°	1196.7	1202.3	1215.5	1226.7	1230.4
20°	1168.6	1181.7	1191.1	1206.1	1208.0
22.5°	1140.5	1148.0	1164.9	1179.9	1187.4
25°	1106.8	1116.2	1142.4	1155.5	1161.1
27.5°	1071.2	1084.4	1105.0	1125.6	1133.0
30°	1035.7	1045.0	1071.2	1095.6	1103.1
32.5°	996.3	1009.4	1037.5	1061.9	1073.1
35°	957.0	970.1	1000.1	1030.0	1041.3
37.5°	913.9	928.9	958.9	994.5	1009.4
40°	872.7	884.0	919.5	962.6	975.7
42.5°	829.7	842.8	880.2	927.0	942.0
45°	782.8	797.8	839.0	887.7	906.4
47.5°	737.9	752.9	797.8	846.5	869.0
50°	691.1	709.8	754.7	810.9	833.4
52.5°	646.1	663.0	713.5	771.6	792.2
55°	595.6	614.3	670.5	730.4	756.6
57.5°	554.4	567.5	629.3	691.1	717.3
60°	503.8	520.6	584.3	649.9	679.8
62.5°	449.5	477.6	543.1	610.5	640.5
65°	404.5	427.0	501.9	567.5	595.6
67.5°	357.7	382.1	455.1	524.4	556.2
70°	305.3	337.1	413.9	483.2	513.1
72.5°	258.4	292.2	370.8	438.2	470.1
75°	211.6	247.2	324.0	389.5	419.5
77.5°	166.7	206.0	280.9	331.5	350.2
80°	123.6	161.1	226.6	262.2	277.2
82.5°	86.1	118.0	166.7	185.4	189.2
85°	54.3	74.9	101.1	112.4	110.5
87.5°	24.3	30.0	37.5	41.2	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)