

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: P277314

Luminaire Tested: **22CZ2-44HE-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277314
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-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3637.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

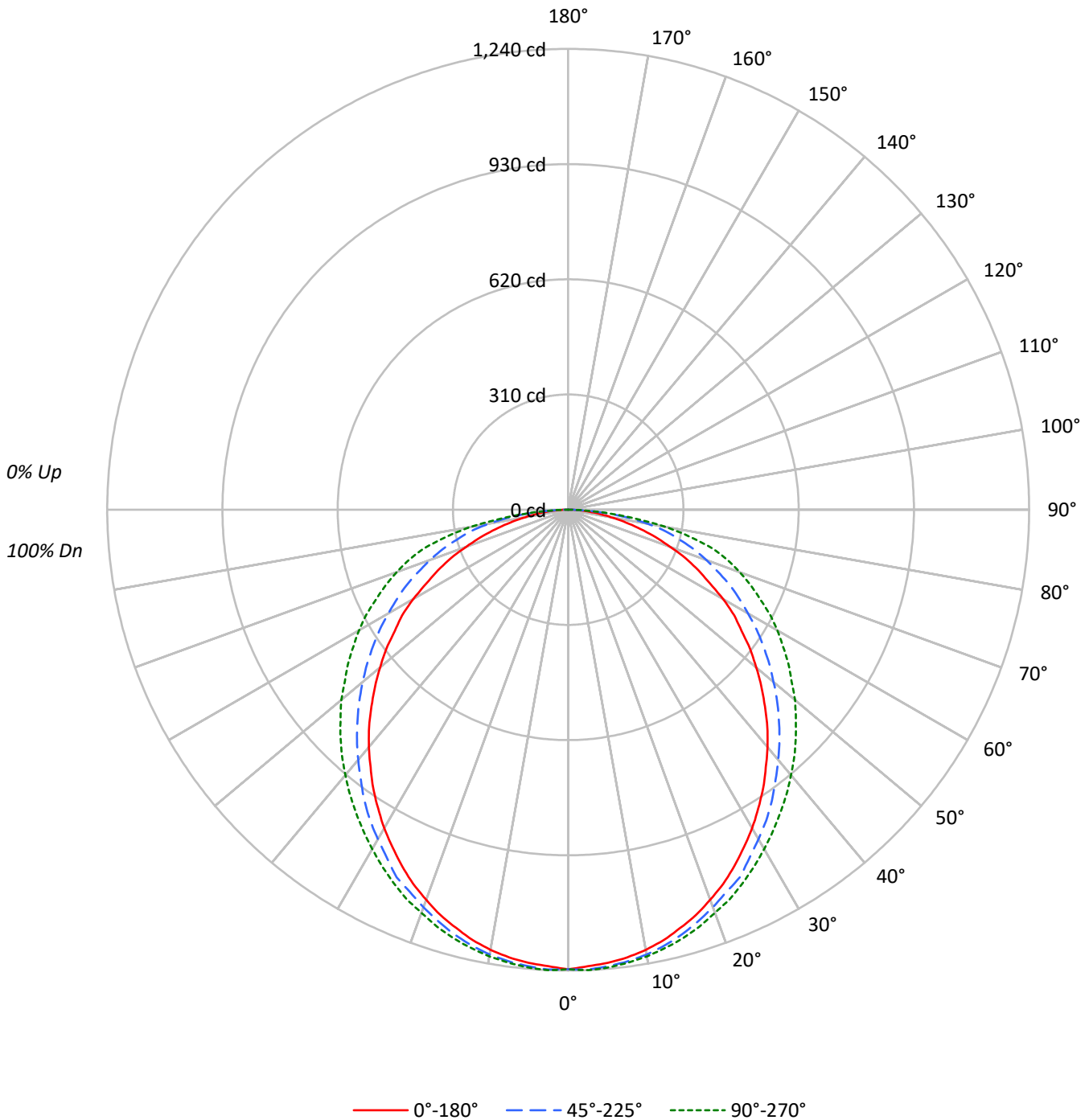
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3328	3328	3328
5°	3307	3331	3340
10°	3286	3321	3335
15°	3246	3296	3326
20°	3198	3259	3306
25°	3140	3241	3295
30°	3075	3181	3275
35°	3004	3140	3269
40°	2930	3087	3275
45°	2847	3051	3296
50°	2765	3019	3334
55°	2670	3006	3392
60°	2591	3005	3496
65°	2462	3054	3624
70°	2295	3112	3858
75°	2102	3219	4168
80°	1830	3355	4105
85°	1602	2983	3260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.2
10°-20°	333.1	9.2
20°-30°	500.1	13.7
30°-40°	597.5	16.4
40°-50°	621.4	17.1
50°-60°	575.9	15.8
60°-70°	472.4	13.0
70°-80°	319.3	8.8
80°-90°	100.3	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°	950.1	26.1
0°-40°	1547.7	42.6
0°-60°	2744.9	75.5
0°-90°	3637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3637.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1237	1237	1237	1237	1237	
5°	1224	1226	1233	1235	1237	116
15°	1165	1170	1183	1190	1194	329
25°	1058	1067	1092	1104	1110	487
35°	914	927	956	984	995	572
45°	748	762	802	848	866	578
55°	569	587	641	698	723	511
65°	387	408	480	542	569	382
75°	202	236	310	372	401	214
85°	52	72	97	107	106	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1236.6	1236.6	1236.6	1236.6	1236.6
2.5°	1229.5	1233.1	1238.4	1240.2	1240.2
5°	1224.1	1225.9	1233.1	1234.9	1236.6
7.5°	1215.2	1218.8	1225.9	1227.7	1229.5
10°	1202.6	1206.2	1215.2	1218.8	1220.5
12.5°	1186.5	1190.1	1200.9	1206.2	1208.0
15°	1165.1	1170.4	1183.0	1190.1	1193.7
17.5°	1143.6	1149.0	1161.5	1172.2	1175.8
20°	1116.7	1129.3	1138.2	1152.5	1154.3
22.5°	1089.9	1097.1	1113.2	1127.5	1134.6
25°	1057.7	1066.6	1091.7	1104.2	1109.6
27.5°	1023.7	1036.2	1055.9	1075.6	1082.7
30°	989.7	998.6	1023.7	1046.9	1054.1
32.5°	952.1	964.6	991.5	1014.7	1025.5
35°	914.5	927.0	955.7	984.3	995.0
37.5°	873.3	887.7	916.3	950.3	964.6
40°	834.0	844.7	878.7	919.9	932.4
42.5°	792.8	805.3	841.1	885.9	900.2
45°	748.1	762.4	801.8	848.3	866.2
47.5°	705.1	719.4	762.4	808.9	830.4
50°	660.4	678.3	721.2	774.9	796.4
52.5°	617.4	633.5	681.9	737.3	757.0
55°	569.1	587.0	640.7	698.0	723.0
57.5°	529.7	542.3	601.3	660.4	685.4
60°	481.4	497.5	558.4	621.0	649.6
62.5°	429.5	456.4	519.0	583.4	612.1
65°	386.6	408.0	479.6	542.3	569.1
67.5°	341.8	365.1	434.9	501.1	531.5
70°	291.7	322.1	395.5	461.7	490.4
72.5°	247.0	279.2	354.4	418.8	449.2
75°	202.2	236.2	309.6	372.2	400.9
77.5°	159.3	196.9	268.4	316.8	334.7
80°	118.1	153.9	216.5	250.6	264.9
82.5°	82.3	112.7	159.3	177.2	180.8
85°	51.9	71.6	96.6	107.4	105.6
87.5°	23.3	28.6	35.8	39.4	37.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)