

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: P277258

Luminaire Tested: **22CZ2-44HE-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277258
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-3000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3887.0 lumens
Efficiency: N/A
Efficacy: 113.3 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

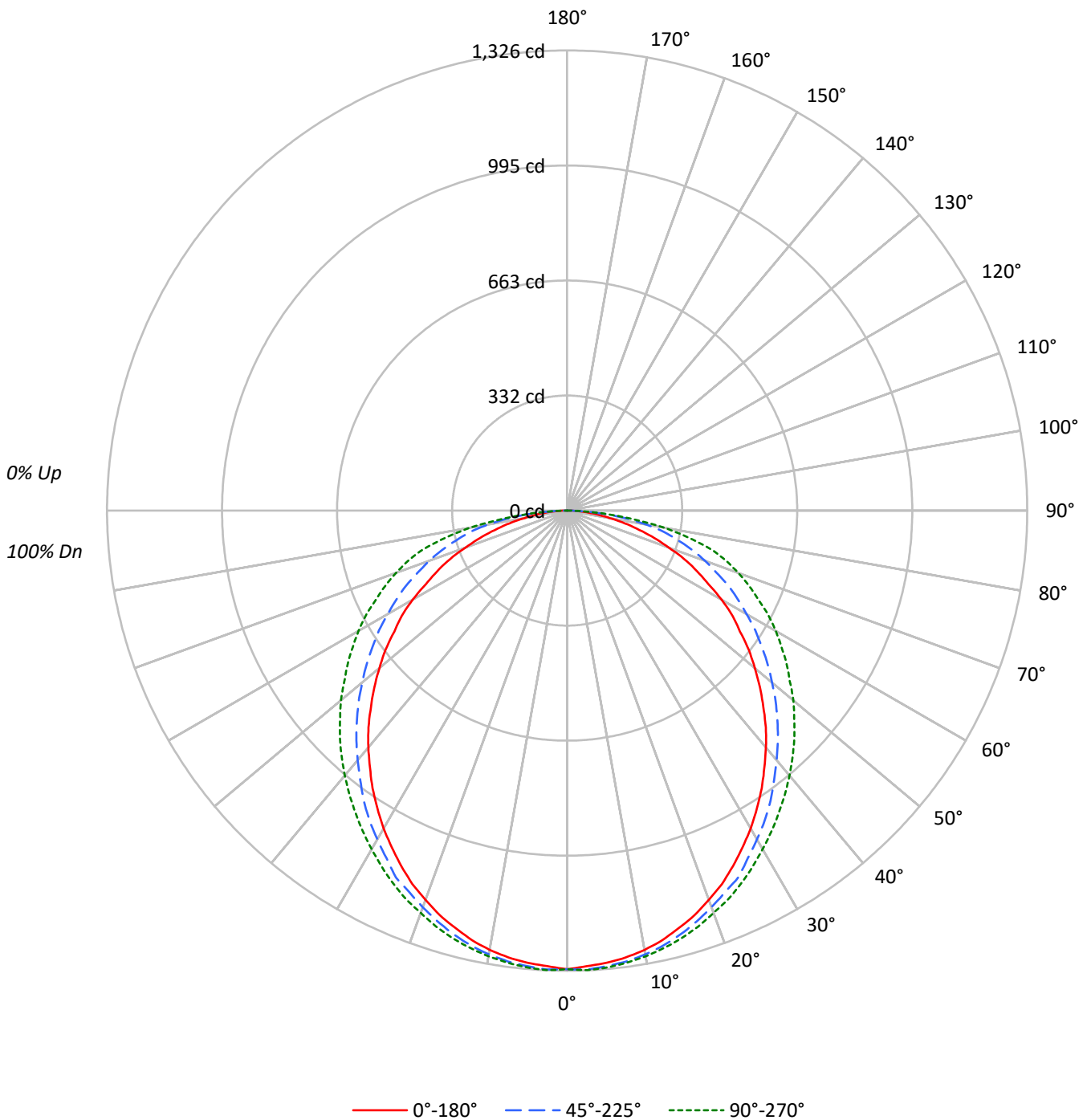
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3557	3557	3557
5°	3534	3560	3570
10°	3512	3549	3564
15°	3469	3522	3554
20°	3418	3484	3533
25°	3356	3464	3521
30°	3287	3399	3501
35°	3211	3355	3493
40°	3131	3299	3501
45°	3043	3261	3523
50°	2955	3227	3563
55°	2853	3212	3625
60°	2769	3212	3737
65°	2630	3264	3873
70°	2453	3326	4124
75°	2247	3440	4454
80°	1956	3586	4387
85°	1714	3189	3483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.0	3.2
10°-20°	356.0	9.2
20°-30°	534.5	13.7
30°-40°	638.6	16.4
40°-50°	664.1	17.1
50°-60°	615.5	15.8
60°-70°	504.8	13.0
70°-80°	341.3	8.8
80°-90°	107.3	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°	1015.5	26.1
0°-40°	1654.1	42.6
0°-60°	2933.6	75.5
0°-90°	3887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1322	1322	1322	1322	1322	
5°	1308	1310	1318	1320	1322	124
15°	1245	1251	1264	1272	1276	351
25°	1130	1140	1167	1180	1186	521
35°	977	991	1021	1052	1063	611
45°	800	815	857	907	926	617
55°	608	627	685	746	773	547
65°	413	436	513	580	608	408
75°	216	252	331	398	428	229
85°	56	76	103	115	113	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1321.7	1321.7	1321.7	1321.7	1321.7
2.5°	1314.0	1317.8	1323.6	1325.5	1325.5
5°	1308.3	1310.2	1317.8	1319.7	1321.7
7.5°	1298.7	1302.5	1310.2	1312.1	1314.0
10°	1285.3	1289.1	1298.7	1302.5	1304.4
12.5°	1268.1	1271.9	1283.4	1289.1	1291.0
15°	1245.1	1250.9	1264.3	1271.9	1275.7
17.5°	1222.2	1227.9	1241.3	1252.8	1256.6
20°	1193.5	1206.9	1216.5	1231.8	1233.7
22.5°	1164.8	1172.5	1189.7	1205.0	1212.6
25°	1130.4	1139.9	1166.7	1180.1	1185.9
27.5°	1094.0	1107.4	1128.5	1149.5	1157.2
30°	1057.7	1067.3	1094.0	1118.9	1126.6
32.5°	1017.5	1030.9	1059.6	1084.5	1096.0
35°	977.4	990.8	1021.4	1052.0	1063.4
37.5°	933.4	948.7	979.3	1015.6	1030.9
40°	891.3	902.8	939.1	983.1	996.5
42.5°	847.3	860.7	899.0	946.8	962.1
45°	799.5	814.8	856.9	906.6	925.7
47.5°	753.6	768.9	814.8	864.5	887.5
50°	705.8	724.9	770.8	828.2	851.1
52.5°	659.9	677.1	728.7	788.0	809.1
55°	608.2	627.4	684.7	745.9	772.7
57.5°	566.1	579.5	642.7	705.8	732.6
60°	514.5	531.7	596.8	663.7	694.3
62.5°	459.0	487.7	554.7	623.5	654.1
65°	413.1	436.1	512.6	579.5	608.2
67.5°	365.3	390.2	464.8	535.5	568.1
70°	311.8	344.3	422.7	493.5	524.1
72.5°	263.9	298.4	378.7	447.6	480.1
75°	216.1	252.5	330.9	397.8	428.4
77.5°	170.2	210.4	286.9	338.5	357.7
80°	126.2	164.5	231.4	267.8	283.1
82.5°	88.0	120.5	170.2	189.4	193.2
85°	55.5	76.5	103.3	114.8	112.8
87.5°	24.9	30.6	38.3	42.1	40.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)