

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: P277179

Luminaire Tested: **22CZ2-44HE-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277179
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-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4323.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

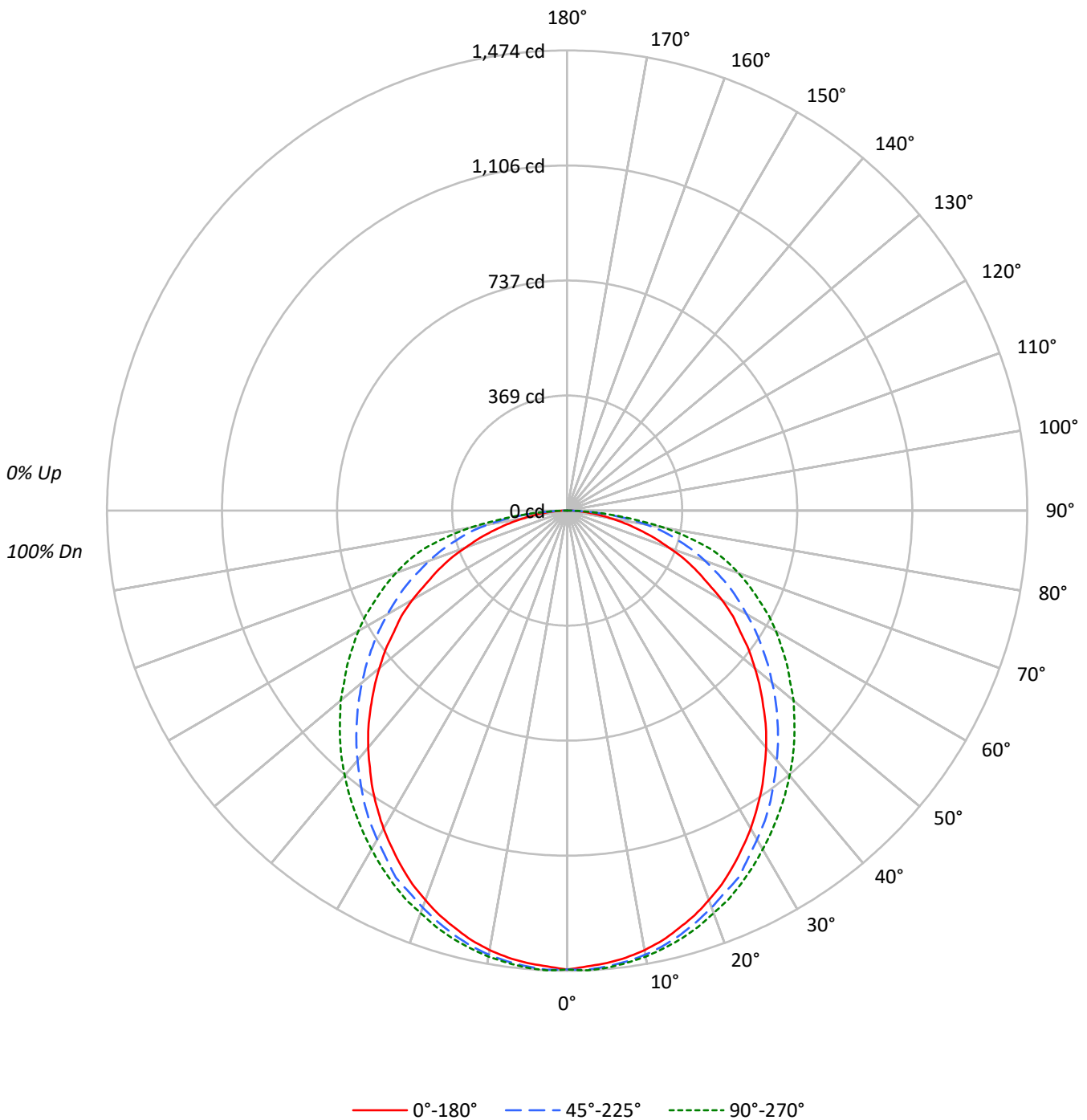
Input Watts (W): 35.433
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20																		
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°	3955	3955	3955
5°	3930	3959	3971
10°	3906	3947	3964
15°	3858	3917	3953
20°	3801	3874	3929
25°	3733	3853	3916
30°	3655	3781	3893
35°	3571	3732	3885
40°	3482	3669	3893
45°	3384	3627	3918
50°	3286	3589	3963
55°	3174	3573	4032
60°	3080	3572	4156
65°	2926	3630	4308
70°	2728	3699	4586
75°	2499	3826	4954
80°	2176	3989	4878
85°	1905	3548	3875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	3.2
10°-20°	395.9	9.2
20°-30°	594.4	13.7
30°-40°	710.3	16.4
40°-50°	738.6	17.1
50°-60°	684.5	15.8
60°-70°	561.5	13.0
70°-80°	379.6	8.8
80°-90°	119.3	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°	1129.4	26.1
0°-40°	1839.6	42.6
0°-60°	3262.7	75.5
0°-90°	4323.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1470	1470	1470	1470	1470	
5°	1455	1457	1466	1468	1470	138
15°	1385	1391	1406	1415	1419	391
25°	1257	1268	1298	1312	1319	579
35°	1087	1102	1136	1170	1183	679
45°	889	906	953	1008	1030	687
55°	676	698	762	830	859	608
65°	460	485	570	644	676	454
75°	240	281	368	442	476	255
85°	62	85	115	128	126	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1469.9	1469.9	1469.9	1469.9	1469.9
2.5°	1461.4	1465.6	1472.0	1474.2	1474.2
5°	1455.0	1457.1	1465.6	1467.8	1469.9
7.5°	1444.4	1448.6	1457.1	1459.3	1461.4
10°	1429.5	1433.7	1444.4	1448.6	1450.8
12.5°	1410.3	1414.6	1427.4	1433.7	1435.9
15°	1384.8	1391.2	1406.1	1414.6	1418.8
17.5°	1359.3	1365.7	1380.6	1393.3	1397.6
20°	1327.4	1342.3	1352.9	1369.9	1372.0
22.5°	1295.5	1304.0	1323.1	1340.1	1348.6
25°	1257.2	1267.8	1297.6	1312.5	1318.9
27.5°	1216.8	1231.7	1255.1	1278.5	1287.0
30°	1176.3	1187.0	1216.8	1244.4	1252.9
32.5°	1131.7	1146.6	1178.5	1206.1	1218.9
35°	1087.0	1101.9	1135.9	1170.0	1182.7
37.5°	1038.1	1055.1	1089.1	1129.5	1146.6
40°	991.3	1004.0	1044.5	1093.4	1108.3
42.5°	942.4	957.2	999.8	1053.0	1070.0
45°	889.2	906.2	953.0	1008.3	1029.6
47.5°	838.1	855.1	906.2	961.5	987.0
50°	784.9	806.2	857.3	921.1	946.6
52.5°	733.9	753.0	810.5	876.4	899.8
55°	676.5	697.7	761.5	829.6	859.4
57.5°	629.7	644.5	714.7	784.9	814.7
60°	572.2	591.4	663.7	738.1	772.2
62.5°	510.5	542.4	616.9	693.5	727.5
65°	459.5	485.0	570.1	644.5	676.5
67.5°	406.3	434.0	516.9	595.6	631.8
70°	346.7	382.9	470.1	548.8	582.9
72.5°	293.6	331.8	421.2	497.8	533.9
75°	240.4	280.8	368.0	442.5	476.5
77.5°	189.3	234.0	319.1	376.5	397.8
80°	140.4	182.9	257.4	297.8	314.8
82.5°	97.9	134.0	189.3	210.6	214.8
85°	61.7	85.1	114.9	127.6	125.5
87.5°	27.7	34.0	42.5	46.8	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)