

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: P277313

Luminaire Tested: **22CZ2-44HE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277313
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-3500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3523.0 lumens
Efficiency: N/A
Efficacy: 101.6 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

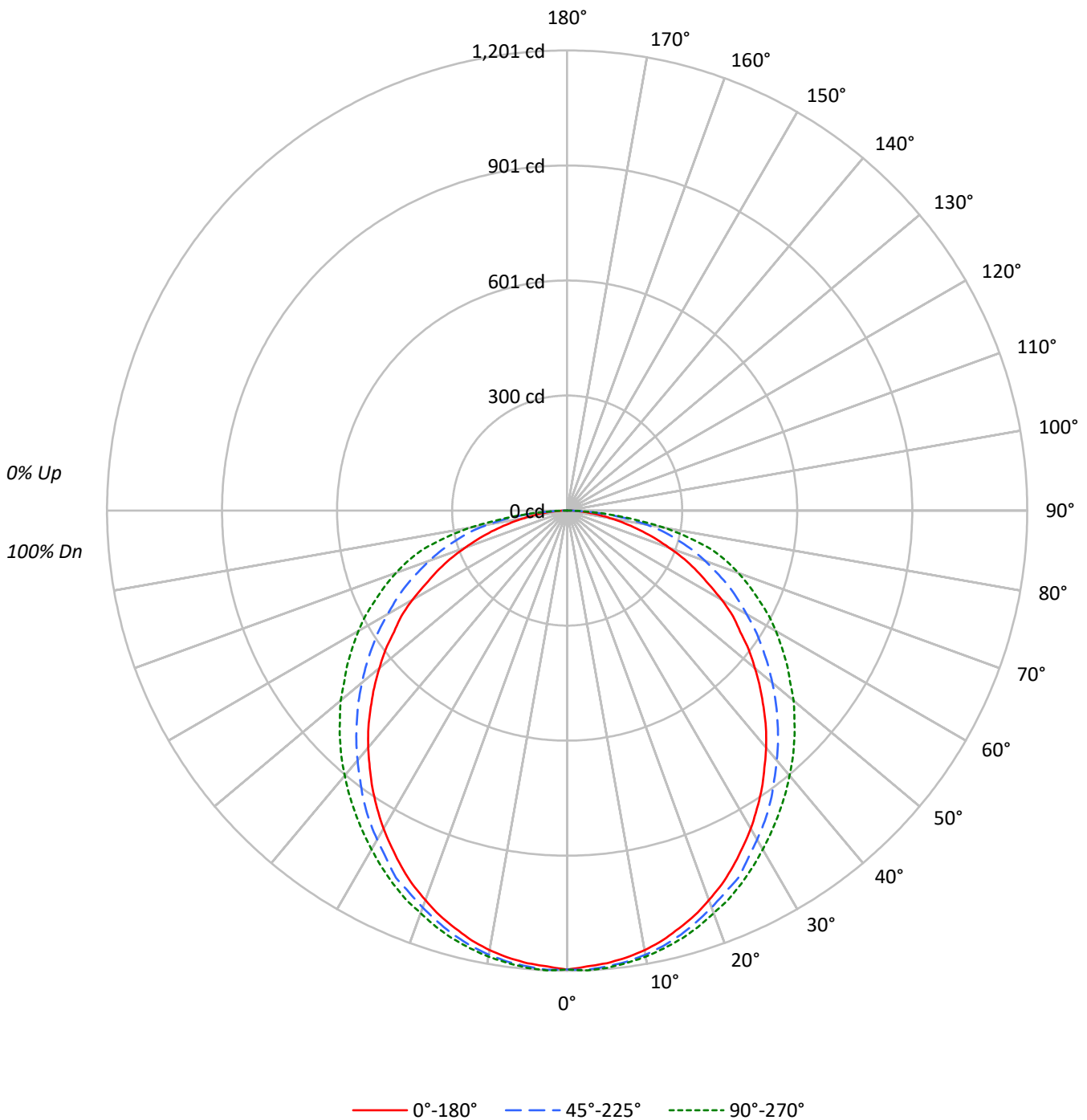
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3224	3224	3224
5°	3203	3226	3236
10°	3183	3216	3231
15°	3144	3192	3221
20°	3098	3157	3202
25°	3042	3140	3191
30°	2979	3081	3173
35°	2910	3041	3166
40°	2838	2990	3173
45°	2758	2955	3193
50°	2678	2925	3229
55°	2586	2912	3286
60°	2510	2911	3387
65°	2384	2958	3510
70°	2223	3014	3737
75°	2037	3118	4037
80°	1773	3251	3976
85°	1553	2890	3159



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.3	3.2
10°-20°	322.7	9.2
20°-30°	484.4	13.7
30°-40°	578.8	16.4
40°-50°	601.9	17.1
50°-60°	557.9	15.8
60°-70°	457.6	13.0
70°-80°	309.3	8.8
80°-90°	97.2	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°	920.4	26.1
0°-40°	1499.2	42.6
0°-60°	2658.9	75.5
0°-90°	3523.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3523.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1186	1188	1194	1196	1198	113
15°	1128	1134	1146	1153	1156	318
25°	1024	1033	1058	1070	1075	472
35°	886	898	926	954	964	554
45°	725	738	777	822	839	560
55°	551	569	621	676	700	495
65°	374	395	465	525	551	370
75°	196	229	300	361	388	208
85°	50	69	94	104	102	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.9	1197.9	1197.9	1197.9	1197.9
2.5°	1191.0	1194.4	1199.6	1201.4	1201.4
5°	1185.8	1187.5	1194.4	1196.2	1197.9
7.5°	1177.1	1180.5	1187.5	1189.2	1191.0
10°	1164.9	1168.4	1177.1	1180.5	1182.3
12.5°	1149.3	1152.8	1163.2	1168.4	1170.1
15°	1128.5	1133.7	1145.9	1152.8	1156.3
17.5°	1107.7	1112.9	1125.1	1135.5	1138.9
20°	1081.7	1093.9	1102.5	1116.4	1118.1
22.5°	1055.7	1062.7	1078.3	1092.1	1099.1
25°	1024.5	1033.2	1057.5	1069.6	1074.8
27.5°	991.6	1003.7	1022.8	1041.9	1048.8
30°	958.7	967.3	991.6	1014.1	1021.1
32.5°	922.3	934.4	960.4	982.9	993.3
35°	885.8	898.0	925.7	953.5	963.9
37.5°	846.0	859.8	887.6	920.5	934.4
40°	807.8	818.2	851.2	891.0	903.2
42.5°	768.0	780.1	814.8	858.1	872.0
45°	724.6	738.5	776.6	821.7	839.0
47.5°	683.0	696.9	738.5	783.6	804.4
50°	639.7	657.0	698.6	750.6	771.4
52.5°	598.1	613.7	660.5	714.2	733.3
55°	551.3	568.6	620.6	676.1	700.4
57.5°	513.1	525.3	582.5	639.7	664.0
60°	466.3	481.9	540.9	601.5	629.3
62.5°	416.1	442.1	502.7	565.1	592.9
65°	374.4	395.3	464.6	525.3	551.3
67.5°	331.1	353.6	421.3	485.4	514.9
70°	282.6	312.0	383.1	447.3	475.0
72.5°	239.2	270.4	343.2	405.7	435.1
75°	195.9	228.8	299.9	360.6	388.3
77.5°	154.3	190.7	260.0	306.8	324.2
80°	114.4	149.1	209.8	242.7	256.6
82.5°	79.7	109.2	154.3	171.6	175.1
85°	50.3	69.3	93.6	104.0	102.3
87.5°	22.5	27.7	34.7	38.1	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)