

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: P277479

Luminaire Tested: **22CZ2-44HE-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-S-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3403.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

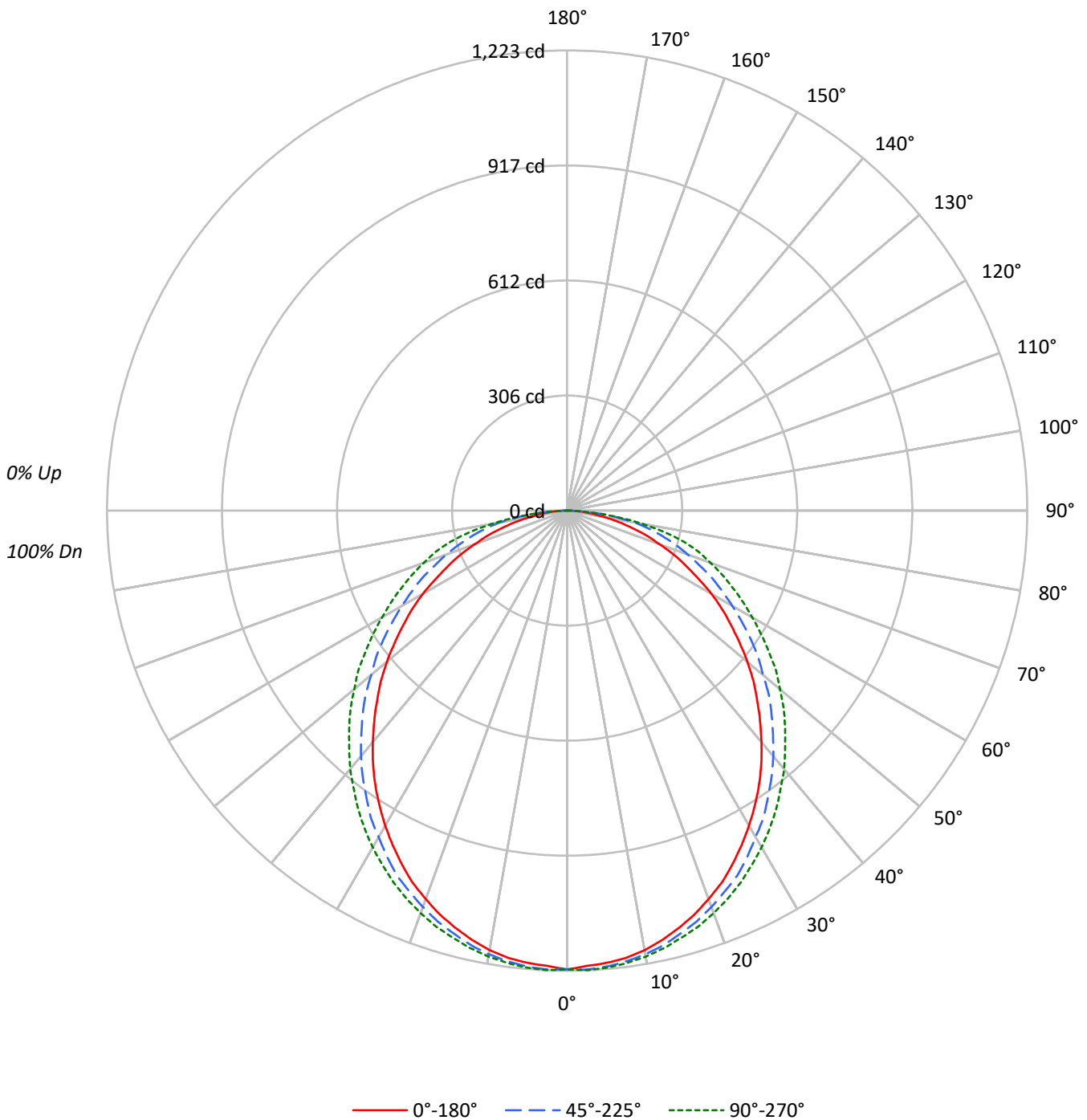
Input Watts (W): 34.503
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49					49			
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37					37			
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3281	3281	3281
5°	3260	3285	3294
10°	3241	3271	3289
15°	3198	3242	3273
20°	3146	3210	3260
25°	3083	3178	3239
30°	3004	3113	3212
35°	2921	3056	3182
40°	2822	2995	3151
45°	2719	2925	3118
50°	2619	2845	3091
55°	2495	2793	3069
60°	2384	2726	3059
65°	2224	2709	3094
70°	2049	2686	3186
75°	1849	2724	3351
80°	1599	2805	3149
85°	1325	2353	2353



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.3	3.4
10°-20°	328.2	9.6
20°-30°	491.0	14.4
30°-40°	581.5	17.1
40°-50°	592.6	17.4
50°-60°	531.2	15.6
60°-70°	415.8	12.2
70°-80°	268.1	7.9
80°-90°	79.2	2.3
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°	934.5	27.5
0°-40°	1516.0	44.5
0°-60°	2639.8	77.6
0°-90°	3403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1207	1210	1216	1218	1219	115
15°	1148	1154	1164	1173	1175	324
25°	1038	1048	1070	1084	1091	478
35°	889	900	930	959	968	556
45°	714	730	768	808	819	552
55°	532	549	595	637	654	477
65°	349	370	426	467	486	347
75°	178	205	262	306	322	191
85°	43	59	76	76	76	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.4	1219.4	1219.4	1219.4	1219.4
2.5°	1211.5	1214.6	1221.0	1222.6	1222.6
5°	1206.7	1209.9	1216.2	1217.8	1219.4
7.5°	1198.8	1200.3	1208.3	1211.5	1213.0
10°	1186.1	1189.2	1197.2	1201.9	1203.5
12.5°	1168.6	1173.4	1182.9	1189.2	1190.8
15°	1148.0	1154.3	1163.8	1173.4	1174.9
17.5°	1125.7	1132.1	1144.8	1155.9	1159.1
20°	1098.7	1106.7	1121.0	1133.7	1138.4
22.5°	1071.7	1078.1	1095.6	1111.4	1116.2
25°	1038.4	1047.9	1070.2	1084.4	1090.8
27.5°	1003.5	1014.6	1036.8	1055.9	1062.2
30°	966.9	978.1	1001.9	1025.7	1033.6
32.5°	928.8	941.5	970.1	993.9	1001.9
35°	889.1	900.3	930.4	959.0	968.5
37.5°	847.9	857.4	892.3	922.5	932.0
40°	803.4	816.1	852.6	887.6	897.1
42.5°	759.0	773.2	809.8	847.9	857.4
45°	714.5	730.4	768.5	808.2	819.3
47.5°	671.6	684.3	727.2	765.3	781.2
50°	625.6	638.3	679.6	722.4	738.3
52.5°	577.9	595.4	639.9	681.1	700.2
55°	531.9	549.4	595.4	636.7	654.2
57.5°	489.0	503.3	551.0	593.8	611.3
60°	443.0	455.7	506.5	552.5	568.4
62.5°	393.8	412.8	465.2	508.1	527.1
65°	349.3	369.9	425.5	466.8	485.9
67.5°	308.0	327.1	381.1	425.5	446.2
70°	260.4	285.8	341.4	385.8	404.9
72.5°	222.3	244.5	301.7	346.1	366.8
75°	177.8	204.8	262.0	306.4	322.3
77.5°	141.3	168.3	222.3	257.2	265.2
80°	103.2	130.2	181.0	198.5	203.2
82.5°	69.9	95.3	130.2	135.0	136.5
85°	42.9	58.7	76.2	76.2	76.2
87.5°	20.6	23.8	27.0	25.4	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)