

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: P277467

Luminaire Tested: **22CZ2-34HE-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277467
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: 22CZ2-34HE-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3170.0 lumens
Efficiency: N/A
Efficacy: 120.0 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

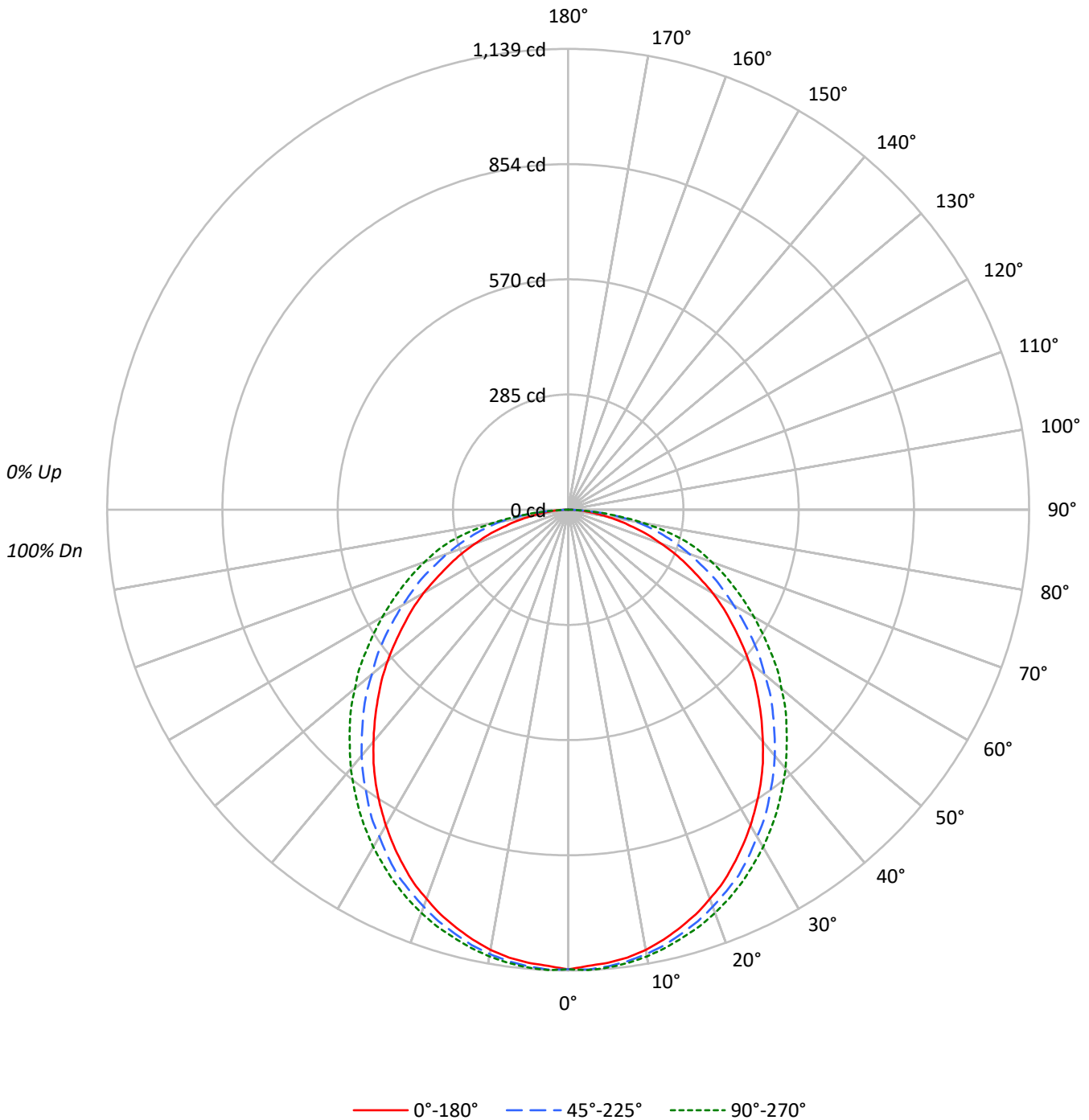
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3057	3057	3057
5°	3036	3061	3068
10°	3019	3047	3063
15°	2979	3020	3049
20°	2931	2990	3037
25°	2872	2960	3017
30°	2799	2900	2992
35°	2721	2847	2964
40°	2629	2790	2936
45°	2533	2724	2904
50°	2439	2650	2879
55°	2325	2602	2859
60°	2221	2539	2850
65°	2072	2524	2882
70°	1909	2502	2968
75°	1723	2537	3121
80°	1489	2613	2934
85°	1232	2192	2192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	3.4
10°-20°	305.7	9.6
20°-30°	457.4	14.4
30°-40°	541.7	17.1
40°-50°	552.0	17.4
50°-60°	494.8	15.6
60°-70°	387.4	12.2
70°-80°	249.8	7.9
80°-90°	73.8	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°	870.5	27.5
0°-40°	1412.2	44.5
0°-60°	2459.0	77.6
0°-90°	3170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3170.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1124	1127	1133	1134	1136	107
15°	1069	1075	1084	1093	1094	301
25°	967	976	997	1010	1016	445
35°	828	839	867	893	902	518
45°	666	680	716	753	763	514
55°	496	512	555	593	609	444
65°	325	345	396	435	453	323
75°	166	191	244	286	300	178
85°	40	55	71	71	71	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1135.9	1135.9	1135.9	1135.9	1135.9
2.5°	1128.5	1131.5	1137.4	1138.9	1138.9
5°	1124.1	1127.0	1133.0	1134.4	1135.9
7.5°	1116.7	1118.2	1125.6	1128.5	1130.0
10°	1104.8	1107.8	1115.2	1119.6	1121.1
12.5°	1088.6	1093.0	1101.9	1107.8	1109.3
15°	1069.4	1075.3	1084.1	1093.0	1094.5
17.5°	1048.6	1054.6	1066.4	1076.7	1079.7
20°	1023.5	1030.9	1044.2	1056.0	1060.5
22.5°	998.4	1004.3	1020.5	1035.3	1039.8
25°	967.3	976.2	996.9	1010.2	1016.1
27.5°	934.8	945.1	965.8	983.6	989.5
30°	900.7	911.1	933.3	955.5	962.9
32.5°	865.2	877.1	903.7	925.9	933.3
35°	828.3	838.6	866.7	893.3	902.2
37.5°	789.8	798.7	831.2	859.3	868.2
40°	748.4	760.2	794.2	826.8	835.7
42.5°	707.0	720.3	754.3	789.8	798.7
45°	665.6	680.4	715.9	752.8	763.2
47.5°	625.6	637.5	677.4	712.9	727.7
50°	582.7	594.6	633.0	673.0	687.8
52.5°	538.4	554.6	596.1	634.5	652.3
55°	495.5	511.8	554.6	593.1	609.4
57.5°	455.5	468.9	513.2	553.2	569.4
60°	412.7	424.5	471.8	514.7	529.5
62.5°	366.8	384.6	433.4	473.3	491.0
65°	325.4	344.6	396.4	434.8	452.6
67.5°	286.9	304.7	355.0	396.4	415.6
70°	242.6	266.2	318.0	359.4	377.2
72.5°	207.1	227.8	281.0	322.4	341.7
75°	165.7	190.8	244.0	285.5	300.2
77.5°	131.6	156.8	207.1	239.6	247.0
80°	96.1	121.3	168.6	184.9	189.3
82.5°	65.1	88.7	121.3	125.7	127.2
85°	39.9	54.7	71.0	71.0	71.0
87.5°	19.2	22.2	25.1	23.7	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)