

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: P277300

Luminaire Tested: **22CZ2-34HE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277300  
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: 22CZ2-34HE-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3019.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

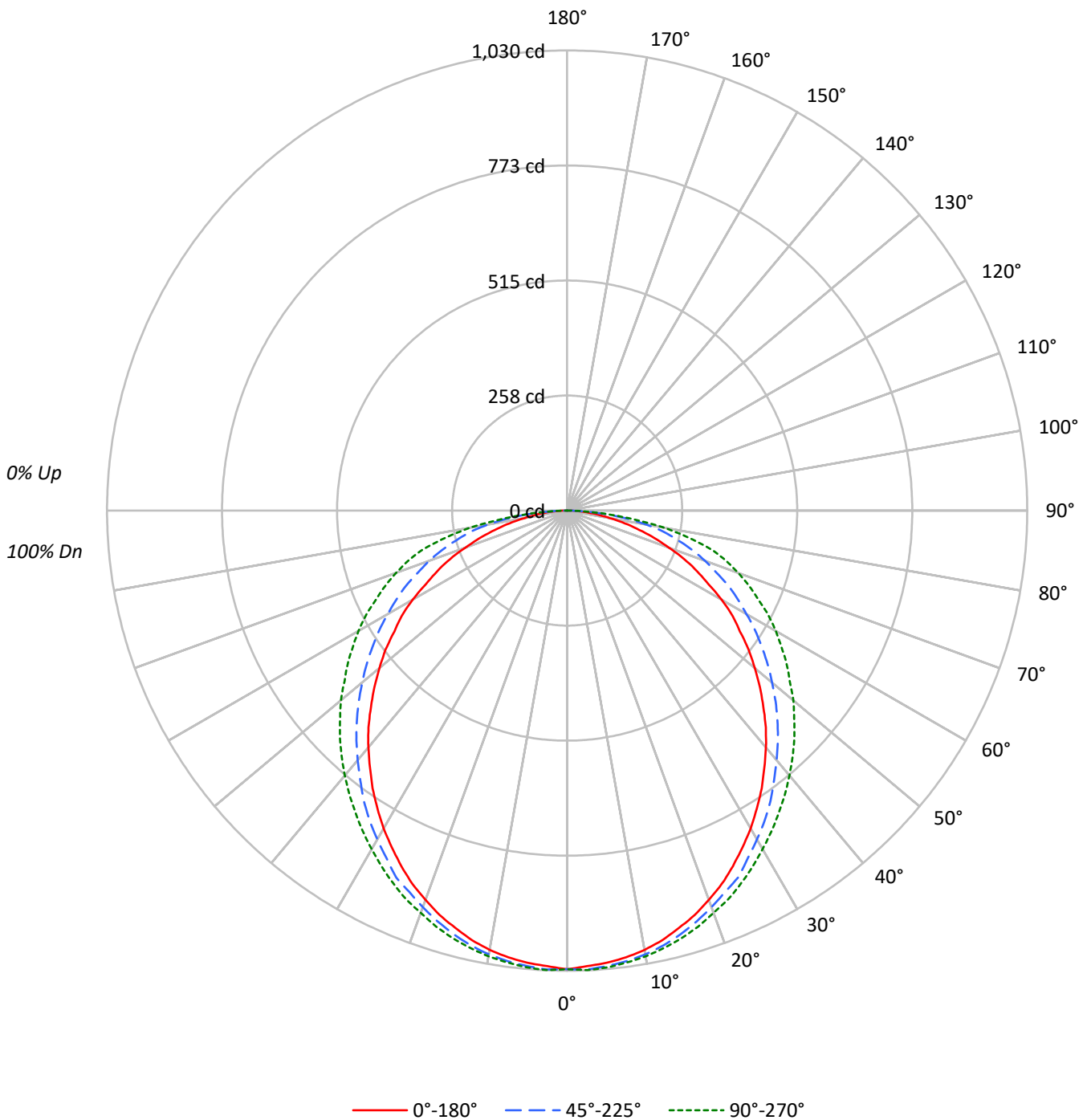
Input Watts (W): 26.412  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2762	2762	2762
5°	2745	2765	2773
10°	2728	2756	2768
15°	2694	2735	2761
20°	2655	2706	2744
25°	2607	2691	2735
30°	2553	2640	2719
35°	2494	2606	2713
40°	2432	2562	2719
45°	2363	2533	2736
50°	2295	2506	2768
55°	2216	2495	2816
60°	2151	2495	2902
65°	2043	2535	3008
70°	1905	2583	3202
75°	1746	2672	3460
80°	1519	2786	3408
85°	1331	2476	2705



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.1	3.2
10°-20°	276.5	9.2
20°-30°	415.1	13.7
30°-40°	496.0	16.4
40°-50°	515.8	17.1
50°-60°	478.0	15.8
60°-70°	392.1	13.0
70°-80°	265.1	8.8
80°-90°	83.3	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°	788.7	26.1
0°-40°	1284.7	42.6
0°-60°	2278.5	75.5
0°-90°	3019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3019.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1016	1018	1024	1025	1026	96
15°	967	972	982	988	991	273
25°	878	885	906	917	921	404
35°	759	770	793	817	826	474
45°	621	633	666	704	719	480
55°	472	487	532	579	600	425
65°	321	339	398	450	472	317
75°	168	196	257	309	333	178
85°	43	59	80	89	88	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1026.5	1026.5	1026.5	1026.5	1026.5
2.5°	1020.6	1023.5	1028.0	1029.5	1029.5
5°	1016.1	1017.6	1023.5	1025.0	1026.5
7.5°	1008.7	1011.7	1017.6	1019.1	1020.6
10°	998.3	1001.3	1008.7	1011.7	1013.1
12.5°	984.9	987.9	996.8	1001.3	1002.7
15°	967.1	971.6	981.9	987.9	990.9
17.5°	949.3	953.7	964.1	973.0	976.0
20°	927.0	937.4	944.8	956.7	958.2
22.5°	904.7	910.6	924.0	935.9	941.8
25°	878.0	885.4	906.2	916.6	921.0
27.5°	849.7	860.1	876.5	892.8	898.8
30°	821.5	828.9	849.7	869.0	875.0
32.5°	790.3	800.7	823.0	842.3	851.2
35°	759.1	769.5	793.3	817.1	826.0
37.5°	724.9	736.8	760.6	788.8	800.7
40°	692.3	701.2	729.4	763.6	774.0
42.5°	658.1	668.5	698.2	735.3	747.2
45°	621.0	632.8	665.5	704.2	719.0
47.5°	585.3	597.2	632.8	671.5	689.3
50°	548.2	563.0	598.7	643.2	661.1
52.5°	512.5	525.9	566.0	612.0	628.4
55°	472.4	487.3	531.8	579.4	600.2
57.5°	439.7	450.1	499.1	548.2	569.0
60°	399.6	413.0	463.5	515.5	539.3
62.5°	356.5	378.8	430.8	484.3	508.1
65°	320.9	338.7	398.1	450.1	472.4
67.5°	283.7	303.1	361.0	416.0	441.2
70°	242.1	267.4	328.3	383.3	407.0
72.5°	205.0	231.7	294.1	347.6	372.9
75°	167.9	196.1	257.0	309.0	332.8
77.5°	132.2	163.4	222.8	262.9	277.8
80°	98.0	127.8	179.8	208.0	219.9
82.5°	68.3	93.6	132.2	147.1	150.0
85°	43.1	59.4	80.2	89.1	87.6
87.5°	19.3	23.8	29.7	32.7	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)