

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: P277242

Luminaire Tested: **22CZ2-34HE-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277242  
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-L82765-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: 3197.0 lumens  
Efficiency: N/A  
Efficacy: 123.2 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

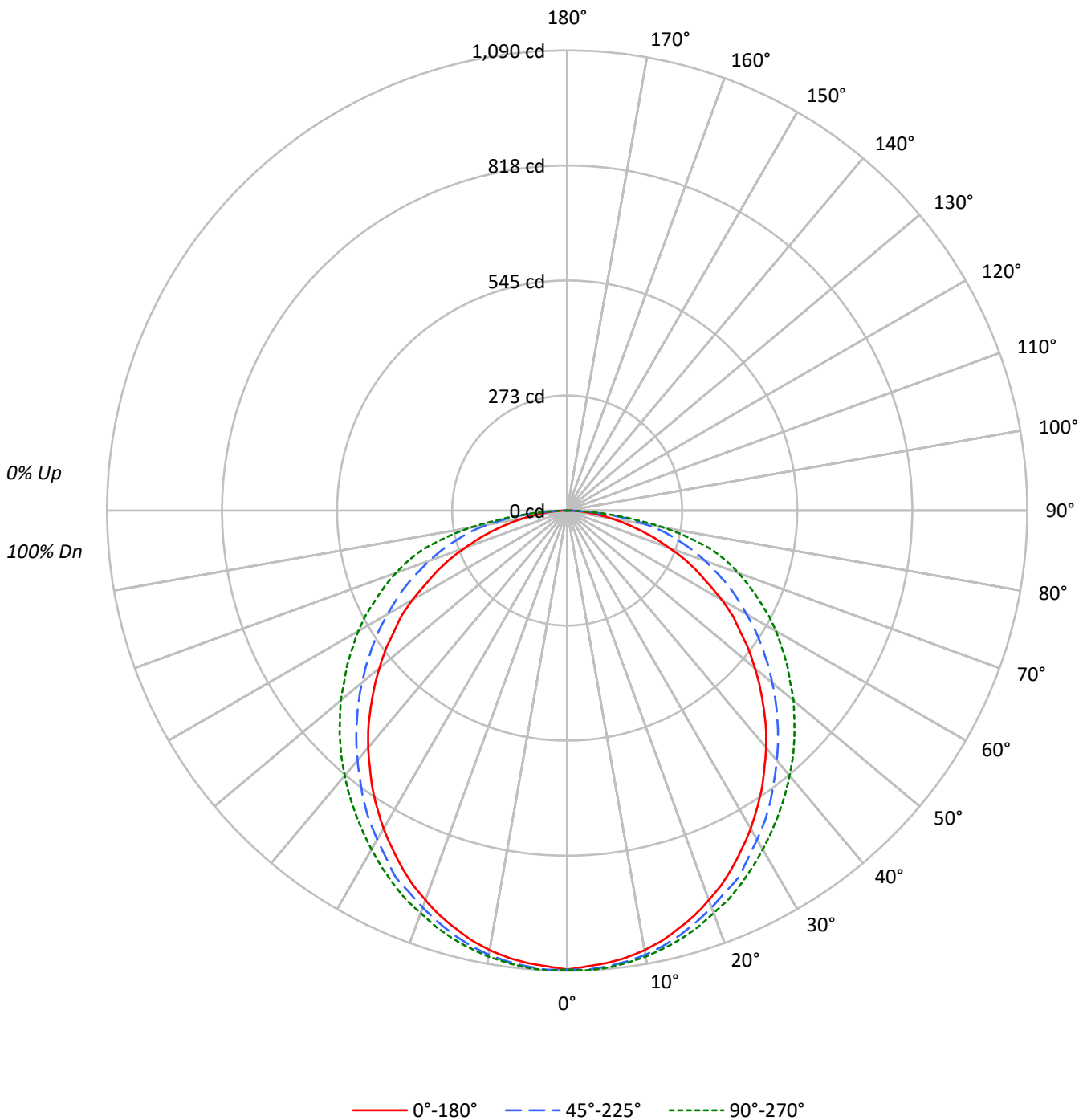
Input Watts (W): 25.947  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2925	2925	2925
5°	2907	2928	2936
10°	2889	2919	2932
15°	2853	2897	2923
20°	2811	2865	2906
25°	2760	2849	2896
30°	2703	2796	2879
35°	2641	2760	2873
40°	2575	2713	2879
45°	2503	2682	2898
50°	2430	2654	2930
55°	2347	2642	2981
60°	2278	2641	3073
65°	2164	2684	3186
70°	2017	2736	3391
75°	1849	2830	3664
80°	1609	2949	3608
85°	1408	2621	2865



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.8	3.2
10°-20°	292.8	9.2
20°-30°	439.6	13.7
30°-40°	525.3	16.4
40°-50°	546.2	17.1
50°-60°	506.2	15.8
60°-70°	415.2	13.0
70°-80°	280.7	8.8
80°-90°	88.2	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°	835.2	26.1
0°-40°	1360.4	42.6
0°-60°	2412.9	75.5
0°-90°	3197.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3197.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1076	1078	1084	1086	1087	102
15°	1024	1029	1040	1046	1049	289
25°	930	938	960	971	975	428
35°	804	815	840	865	875	502
45°	658	670	705	746	761	508
55°	500	516	563	614	636	450
65°	340	359	422	477	500	336
75°	178	208	272	327	352	189
85°	46	63	85	94	93	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1087.0	1087.0	1087.0	1087.0	1087.0
2.5°	1080.7	1083.9	1088.6	1090.2	1090.2
5°	1076.0	1077.6	1083.9	1085.5	1087.0
7.5°	1068.2	1071.3	1077.6	1079.2	1080.7
10°	1057.1	1060.3	1068.2	1071.3	1072.9
12.5°	1043.0	1046.1	1055.6	1060.3	1061.9
15°	1024.1	1028.8	1039.8	1046.1	1049.3
17.5°	1005.2	1010.0	1021.0	1030.4	1033.6
20°	981.6	992.7	1000.5	1013.1	1014.7
22.5°	958.0	964.3	978.5	991.1	997.4
25°	929.7	937.6	959.6	970.6	975.3
27.5°	899.8	910.8	928.2	945.5	951.7
30°	869.9	877.8	899.8	920.3	926.6
32.5°	836.9	847.9	871.5	892.0	901.4
35°	803.9	814.9	840.1	865.2	874.7
37.5°	767.7	780.3	805.4	835.3	847.9
40°	733.1	742.5	772.4	808.6	819.6
42.5°	696.9	707.9	739.4	778.7	791.3
45°	657.6	670.2	704.8	745.7	761.4
47.5°	619.8	632.4	670.2	711.1	729.9
50°	580.5	596.2	634.0	681.2	700.0
52.5°	542.7	556.9	599.4	648.1	665.4
55°	500.3	516.0	563.2	613.5	635.5
57.5°	465.6	476.7	528.6	580.5	602.5
60°	423.2	437.3	490.8	545.9	571.0
62.5°	377.6	401.2	456.2	512.8	538.0
65°	339.8	358.7	421.6	476.7	500.3
67.5°	300.5	320.9	382.3	440.5	467.2
70°	256.4	283.2	347.7	405.9	431.0
72.5°	217.1	245.4	311.5	368.1	394.9
75°	177.8	207.7	272.2	327.2	352.4
77.5°	140.0	173.0	236.0	278.4	294.2
80°	103.8	135.3	190.3	220.2	232.8
82.5°	72.4	99.1	140.0	155.7	158.9
85°	45.6	62.9	84.9	94.4	92.8
87.5°	20.5	25.2	31.5	34.6	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)