

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: P276789

Luminaire Tested: **24CZ2-35-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ2-35-RDP-UNV-L83050-W2A1-U-4000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2376.0 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

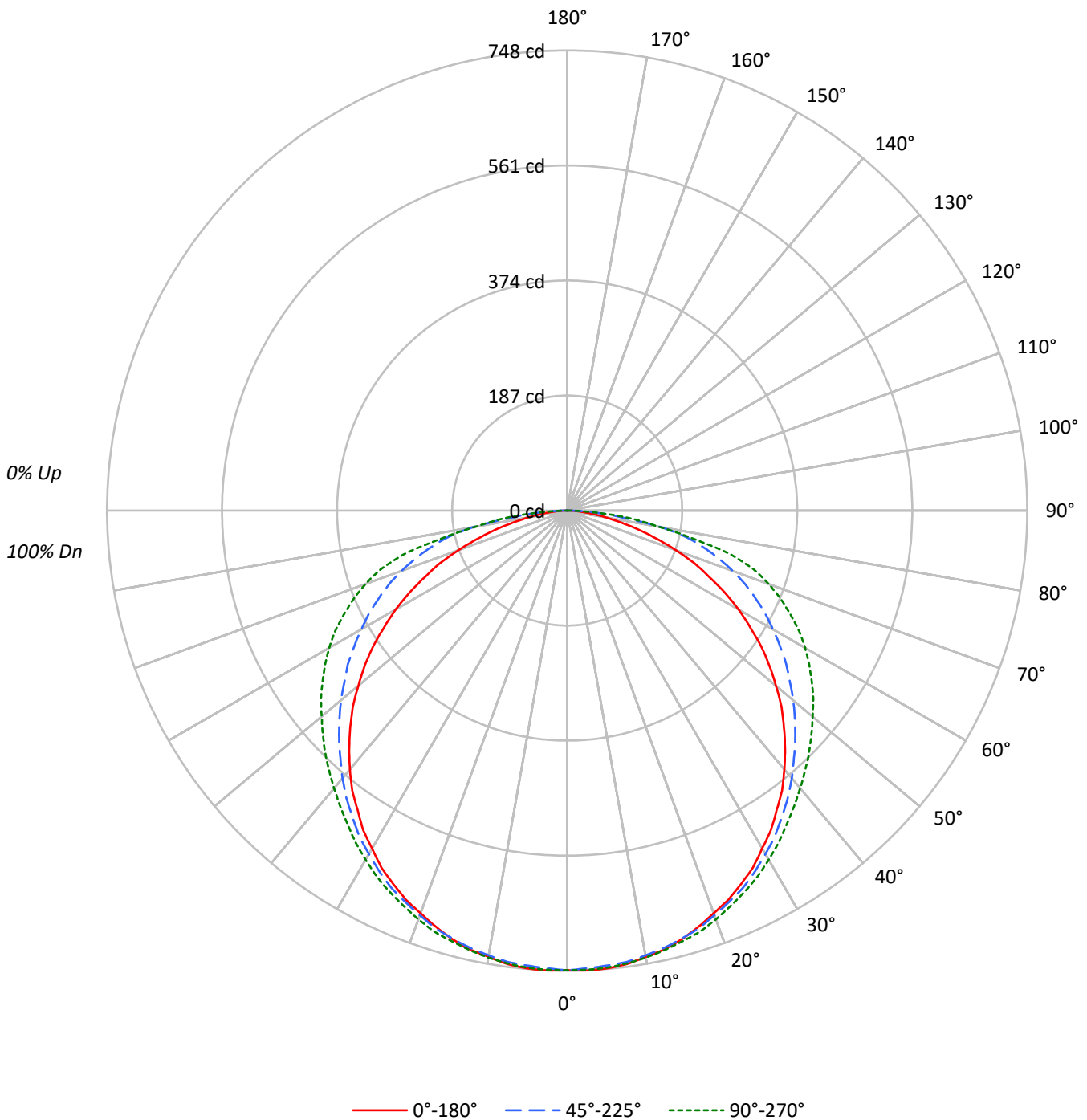
Input Watts (W): 26.63892  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1005	1005	1005
5°	1009	1003	1008
10°	1006	1003	1008
15°	1005	1003	1010
20°	997	1002	1012
25°	994	1004	1015
30°	985	1002	1018
35°	976	999	1022
40°	965	998	1035
45°	949	998	1059
50°	928	1004	1090
55°	904	1020	1139
60°	866	1040	1202
65°	811	1077	1276
70°	737	1127	1372
75°	625	1188	1434
80°	493	1196	1160
85°	364	909	1019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.9	3.0
10°-20°	204.0	8.6
20°-30°	311.9	13.1
30°-40°	381.3	16.0
40°-50°	406.4	17.1
50°-60°	388.6	16.4
60°-70°	329.2	13.9
70°-80°	221.2	9.3
80°-90°	62.4	2.6
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°	586.8	24.7
0°-40°	968.1	40.7
0°-60°	1763.2	74.2
0°-90°	2376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	747	747	747	747	747	
5°	747	746	742	746	746	71
15°	721	721	720	726	725	203
25°	669	672	676	682	684	309
35°	594	599	608	620	622	372
45°	498	507	524	547	556	384
55°	385	400	435	469	486	343
65°	255	280	338	383	401	253
75°	120	164	229	268	276	129
85°	24	48	59	64	66	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	747.2	747.2	747.2	747.2	747.2
2.5°	748.4	748.4	744.8	747.2	747.2
5°	747.2	746.0	742.5	746.0	746.0
7.5°	743.6	742.5	740.1	743.6	742.5
10°	736.6	736.6	734.2	737.8	737.8
12.5°	730.7	729.5	728.3	733.0	731.9
15°	721.3	721.3	720.1	726.0	724.8
17.5°	709.5	710.6	711.8	716.5	717.7
20°	696.5	698.9	700.0	707.1	707.1
22.5°	684.7	685.9	688.3	695.3	695.3
25°	669.4	671.8	676.5	682.4	683.5
27.5°	654.1	655.3	661.2	669.4	670.6
30°	634.0	637.6	644.7	654.1	655.3
32.5°	616.4	619.9	628.2	637.6	639.9
35°	594.0	598.7	608.1	619.9	622.3
37.5°	573.9	577.5	589.3	602.2	605.8
40°	549.2	556.3	568.0	583.4	589.3
42.5°	524.4	531.5	545.7	565.7	572.8
45°	498.5	506.8	524.4	546.8	556.3
47.5°	472.6	482.0	502.1	528.0	538.6
50°	443.1	454.9	479.7	509.1	520.9
52.5°	414.8	429.0	456.1	489.1	504.4
55°	385.4	399.5	434.9	469.1	485.6
57.5°	352.4	371.2	410.1	449.0	466.7
60°	321.7	339.4	386.6	429.0	446.7
62.5°	288.7	312.3	363.0	407.8	425.4
65°	254.6	280.5	338.2	383.0	400.7
67.5°	223.9	252.2	313.5	358.3	375.9
70°	187.4	222.7	286.4	331.2	348.8
72.5°	153.2	192.1	258.1	301.7	318.2
75°	120.2	163.8	228.6	267.5	275.8
77.5°	89.6	135.5	198.0	214.5	208.6
80°	63.6	108.4	154.4	146.1	149.7
82.5°	41.2	82.5	95.5	108.4	112.0
85°	23.6	48.3	58.9	63.6	66.0
87.5°	10.6	17.7	23.6	23.6	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)