

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: P277123

Luminaire Tested: **24CZ2-35-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P277123  
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-L92765-W2A1-U-5700K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2133.3 lumens  
Efficiency: N/A  
Efficacy: 79.4 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

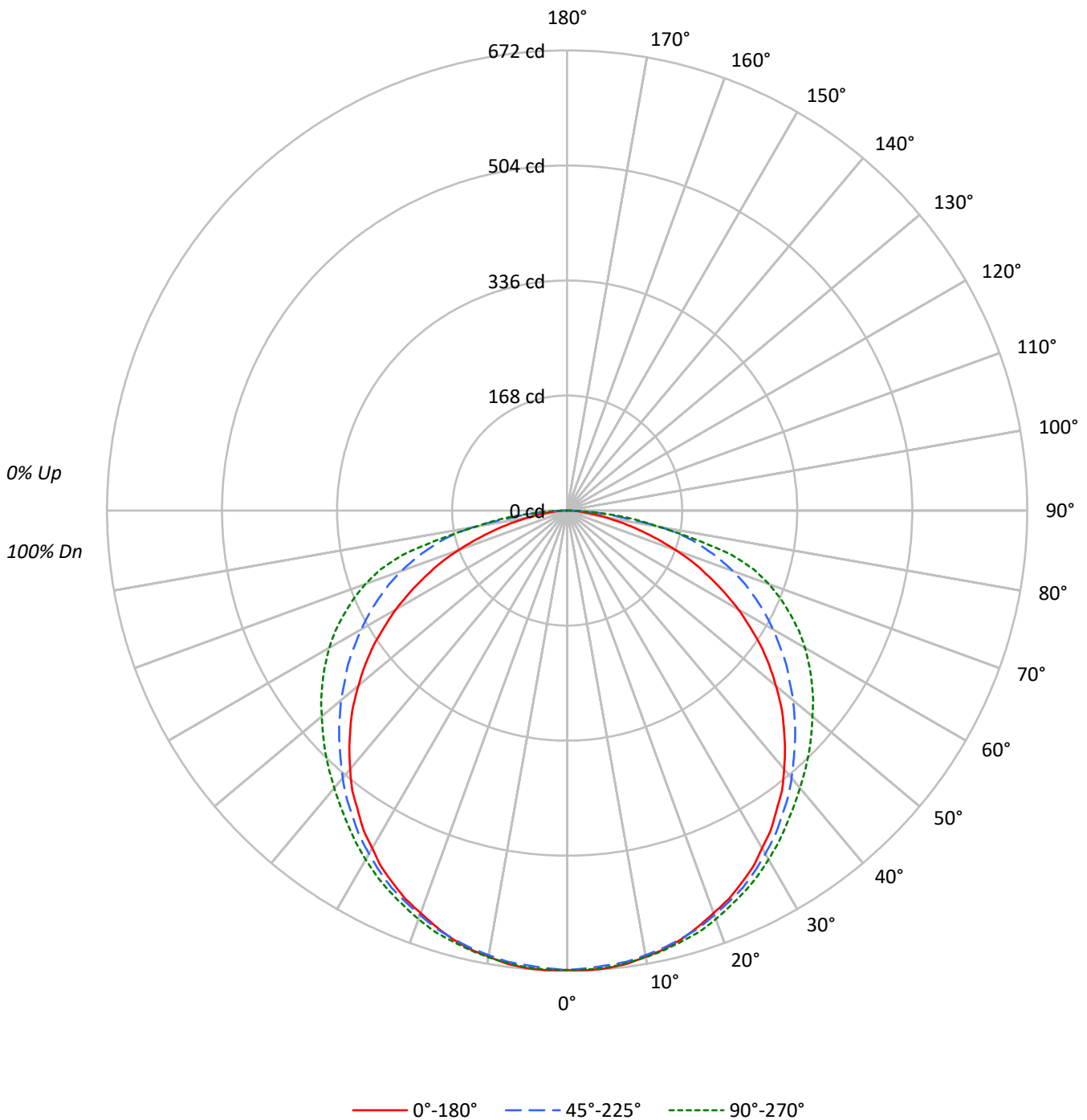
Input Watts (W): 26.877  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	67	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°	903	903	903
5°	906	900	905
10°	903	901	905
15°	902	901	907
20°	895	900	909
25°	892	902	911
30°	884	899	914
35°	876	897	918
40°	866	896	929
45°	852	896	950
50°	833	902	979
55°	812	916	1023
60°	777	934	1079
65°	728	967	1145
70°	662	1011	1232
75°	561	1067	1287
80°	442	1074	1041
85°	327	817	915



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.6	3.0
10°-20°	183.2	8.6
20°-30°	280.1	13.1
30°-40°	342.4	16.0
40°-50°	364.9	17.1
50°-60°	348.9	16.4
60°-70°	295.6	13.9
70°-80°	198.6	9.3
80°-90°	56.0	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°	526.9	24.7
0°-40°	869.2	40.7
0°-60°	1583.1	74.2
0°-90°	2133.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2133.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	671	671	671	671	671	
5°	671	670	667	670	670	64
15°	648	648	646	652	651	183
25°	601	603	607	613	614	277
35°	533	538	546	557	559	334
45°	448	455	471	491	499	345
55°	346	359	390	421	436	308
65°	229	252	304	344	360	227
75°	108	147	205	240	248	116
85°	21	43	53	57	59	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	670.9	670.9	670.9	670.9	670.9
2.5°	671.9	671.9	668.8	670.9	670.9
5°	670.9	669.8	666.6	669.8	669.8
7.5°	667.7	666.6	664.5	667.7	666.6
10°	661.3	661.3	659.2	662.4	662.4
12.5°	656.1	655.0	653.9	658.2	657.1
15°	647.6	647.6	646.5	651.8	650.8
17.5°	637.0	638.1	639.1	643.4	644.4
20°	625.4	627.5	628.5	634.9	634.9
22.5°	614.8	615.8	618.0	624.3	624.3
25°	601.0	603.1	607.4	612.7	613.7
27.5°	587.3	588.3	593.6	601.0	602.1
30°	569.3	572.5	578.8	587.3	588.3
32.5°	553.4	556.6	564.0	572.5	574.6
35°	533.3	537.5	546.0	556.6	558.7
37.5°	515.3	518.5	529.1	540.7	543.9
40°	493.1	499.4	510.0	523.8	529.1
42.5°	470.9	477.2	489.9	507.9	514.3
45°	447.6	455.0	470.9	491.0	499.4
47.5°	424.3	432.8	450.8	474.1	483.6
50°	397.9	408.4	430.7	457.1	467.7
52.5°	372.5	385.2	409.5	439.1	452.9
55°	346.0	358.7	390.5	421.1	436.0
57.5°	316.4	333.3	368.2	403.2	419.0
60°	288.9	304.7	347.1	385.2	401.0
62.5°	259.2	280.4	325.9	366.1	382.0
65°	228.6	251.8	303.7	343.9	359.8
67.5°	201.0	226.4	281.5	321.7	337.6
70°	168.2	200.0	257.1	297.3	313.2
72.5°	137.6	172.5	231.7	270.9	285.7
75°	107.9	147.1	205.3	240.2	247.6
77.5°	80.4	121.7	177.8	192.6	187.3
80°	57.1	97.4	138.6	131.2	134.4
82.5°	37.0	74.1	85.7	97.4	100.5
85°	21.2	43.4	52.9	57.1	59.3
87.5°	9.5	15.9	21.2	21.2	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)