

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: P276782

Luminaire Tested: **24CZ2-30-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276782  
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: 24CZ2-30-RDP-UNV-L83050-W2A1-U-3000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1824.0 lumens  
Efficiency: N/A  
Efficacy: 84.0 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

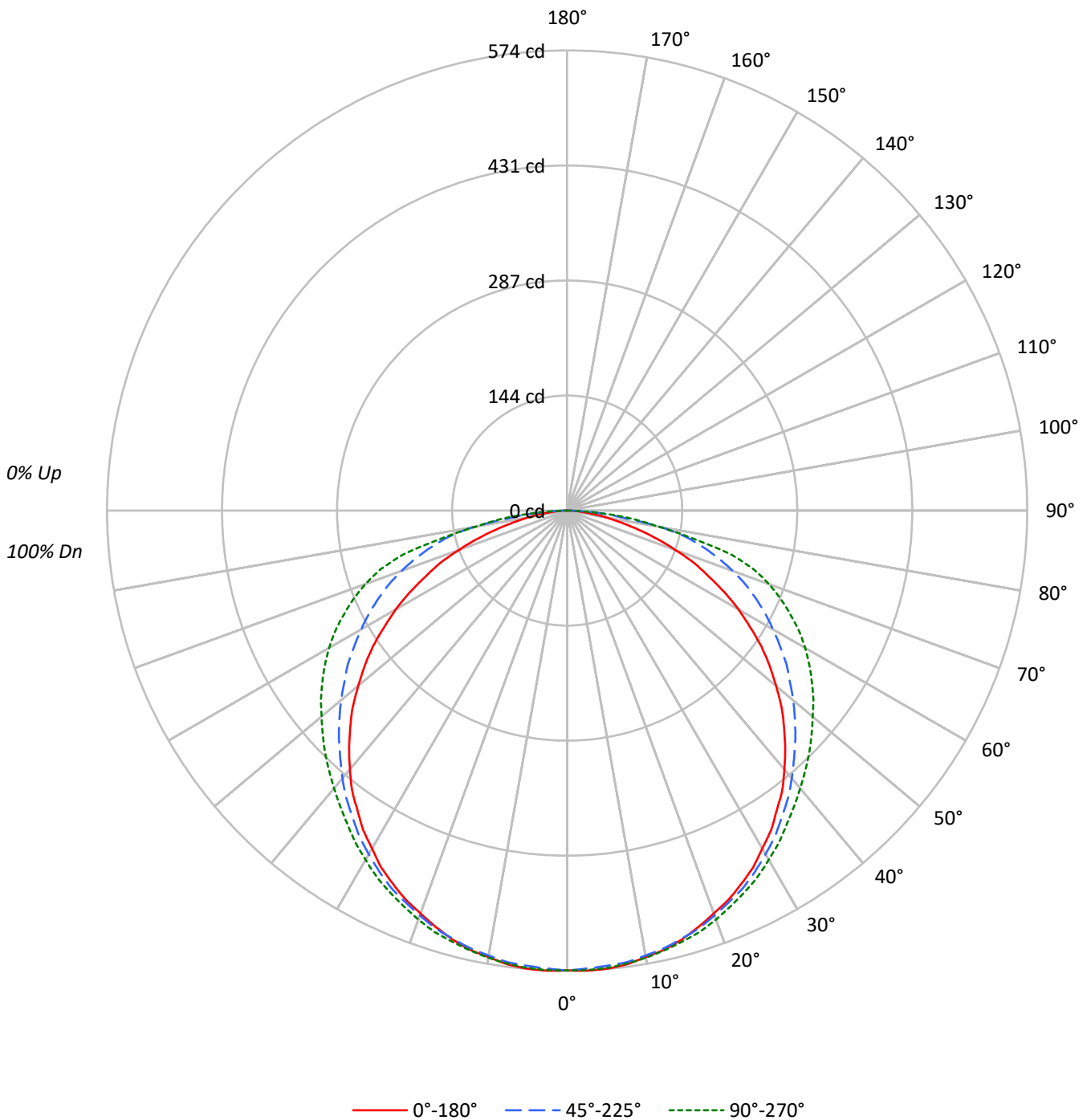
Input Watts (W): 21.718476  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	772	772	772
5°	775	770	774
10°	773	770	774
15°	771	770	775
20°	766	769	777
25°	763	771	779
30°	756	769	781
35°	749	767	785
40°	741	766	795
45°	728	766	812
50°	712	771	837
55°	694	783	874
60°	665	798	923
65°	622	827	979
70°	566	865	1054
75°	480	912	1101
80°	379	918	890
85°	279	698	783



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.4	3.0
10°-20°	156.6	8.6
20°-30°	239.5	13.1
30°-40°	292.7	16.0
40°-50°	312.0	17.1
50°-60°	298.3	16.4
60°-70°	252.7	13.9
70°-80°	169.8	9.3
80°-90°	47.9	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°	450.5	24.7
0°-40°	743.2	40.7
0°-60°	1353.5	74.2
0°-90°	1824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1824.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	574	573	570	573	573	54
15°	554	554	553	557	556	156
25°	514	516	519	524	525	237
35°	456	460	467	476	478	286
45°	383	389	403	420	427	295
55°	296	307	334	360	373	263
65°	195	215	260	294	308	194
75°	92	126	176	205	212	99
85°	18	37	45	49	51	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	573.6	573.6	573.6	573.6	573.6
2.5°	574.5	574.5	571.8	573.6	573.6
5°	573.6	572.7	570.0	572.7	572.7
7.5°	570.9	570.0	568.2	570.9	570.0
10°	565.5	565.5	563.6	566.4	566.4
12.5°	560.9	560.0	559.1	562.7	561.8
15°	553.7	553.7	552.8	557.3	556.4
17.5°	544.6	545.5	546.5	550.1	551.0
20°	534.7	536.5	537.4	542.8	542.8
22.5°	525.6	526.6	528.4	533.8	533.8
25°	513.9	515.7	519.3	523.8	524.7
27.5°	502.1	503.0	507.6	513.9	514.8
30°	486.7	489.5	494.9	502.1	503.0
32.5°	473.2	475.9	482.2	489.5	491.3
35°	456.0	459.6	466.8	475.9	477.7
37.5°	440.6	443.3	452.4	462.3	465.0
40°	421.6	427.0	436.1	447.8	452.4
42.5°	402.6	408.0	418.9	434.3	439.7
45°	382.7	389.0	402.6	419.8	427.0
47.5°	362.8	370.0	385.4	405.3	413.5
50°	340.2	349.2	368.2	390.8	399.9
52.5°	318.5	329.3	350.1	375.5	387.2
55°	295.8	306.7	333.8	360.1	372.7
57.5°	270.5	285.0	314.8	344.7	358.3
60°	247.0	260.6	296.7	329.3	342.9
62.5°	221.7	239.8	278.7	313.0	326.6
65°	195.4	215.3	259.7	294.0	307.6
67.5°	171.9	193.6	240.7	275.0	288.6
70°	143.9	171.0	219.8	254.2	267.8
72.5°	117.6	147.5	198.1	231.6	244.3
75°	92.3	125.8	175.5	205.4	211.7
77.5°	68.8	104.0	152.0	164.7	160.1
80°	48.9	83.2	118.5	112.2	114.9
82.5°	31.7	63.3	73.3	83.2	85.9
85°	18.1	37.1	45.2	48.9	50.7
87.5°	8.1	13.6	18.1	18.1	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)