

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: P276980

Luminaire Tested: **24CZ2-30-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276980  
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-L82765-W2A1-U-6500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2016.9 lumens  
Efficiency: N/A  
Efficacy: 88.9 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

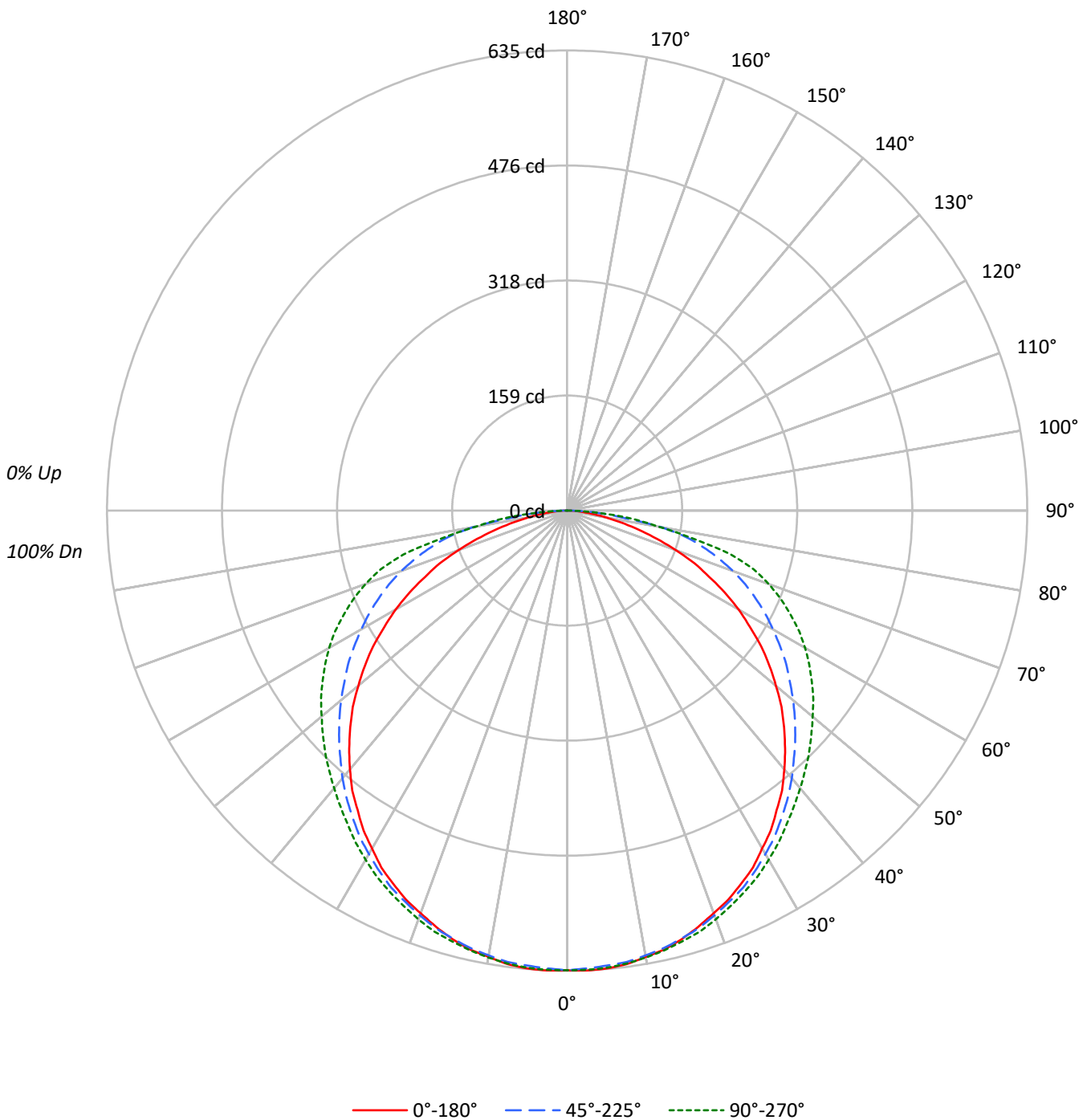
Input Watts (W): 22.692  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	853	853	853
5°	857	851	855
10°	854	852	856
15°	853	851	857
20°	847	851	859
25°	844	852	861
30°	836	850	864
35°	828	848	868
40°	819	847	879
45°	805	847	899
50°	787	852	926
55°	767	866	967
60°	735	883	1020
65°	688	914	1083
70°	626	956	1165
75°	530	1009	1217
80°	418	1016	985
85°	309	772	865



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.2	3.0
10°-20°	173.1	8.6
20°-30°	264.8	13.1
30°-40°	323.7	16.0
40°-50°	345.0	17.1
50°-60°	329.9	16.4
60°-70°	279.4	13.9
70°-80°	187.8	9.3
80°-90°	53.0	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°	498.1	24.7
0°-40°	821.8	40.7
0°-60°	1496.7	74.2
0°-90°	2016.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2016.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	634	633	630	633	633	60
15°	612	612	611	616	615	173
25°	568	570	574	579	580	262
35°	504	508	516	526	528	316
45°	423	430	445	464	472	326
55°	327	339	369	398	412	291
65°	216	238	287	325	340	215
75°	102	139	194	227	234	109
85°	20	41	50	54	56	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	634.3	634.3	634.3	634.3	634.3
2.5°	635.3	635.3	632.3	634.3	634.3
5°	634.3	633.3	630.3	633.3	633.3
7.5°	631.3	630.3	628.3	631.3	630.3
10°	625.3	625.3	623.3	626.3	626.3
12.5°	620.3	619.2	618.2	622.3	621.3
15°	612.2	612.2	611.2	616.2	615.2
17.5°	602.2	603.2	604.2	608.2	609.2
20°	591.2	593.2	594.2	600.2	600.2
22.5°	581.2	582.2	584.2	590.2	590.2
25°	568.2	570.2	574.2	579.2	580.2
27.5°	555.2	556.2	561.2	568.2	569.2
30°	538.2	541.2	547.2	555.2	556.2
32.5°	523.2	526.2	533.2	541.2	543.2
35°	504.2	508.2	516.2	526.2	528.2
37.5°	487.2	490.2	500.2	511.2	514.2
40°	466.2	472.2	482.2	495.2	500.2
42.5°	445.2	451.2	463.2	480.2	486.2
45°	423.2	430.2	445.2	464.2	472.2
47.5°	401.2	409.2	426.2	448.2	457.2
50°	376.2	386.2	407.2	432.2	442.2
52.5°	352.1	364.1	387.2	415.2	428.2
55°	327.1	339.1	369.1	398.2	412.2
57.5°	299.1	315.1	348.1	381.2	396.2
60°	273.1	288.1	328.1	364.1	379.2
62.5°	245.1	265.1	308.1	346.1	361.1
65°	216.1	238.1	287.1	325.1	340.1
67.5°	190.1	214.1	266.1	304.1	319.1
70°	159.1	189.1	243.1	281.1	296.1
72.5°	130.1	163.1	219.1	256.1	270.1
75°	102.0	139.1	194.1	227.1	234.1
77.5°	76.0	115.0	168.1	182.1	177.1
80°	54.0	92.0	131.1	124.1	127.1
82.5°	35.0	70.0	81.0	92.0	95.0
85°	20.0	41.0	50.0	54.0	56.0
87.5°	9.0	15.0	20.0	20.0	19.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)