

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: P276977

Luminaire Tested: **24CZ2-30-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276977
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1987.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

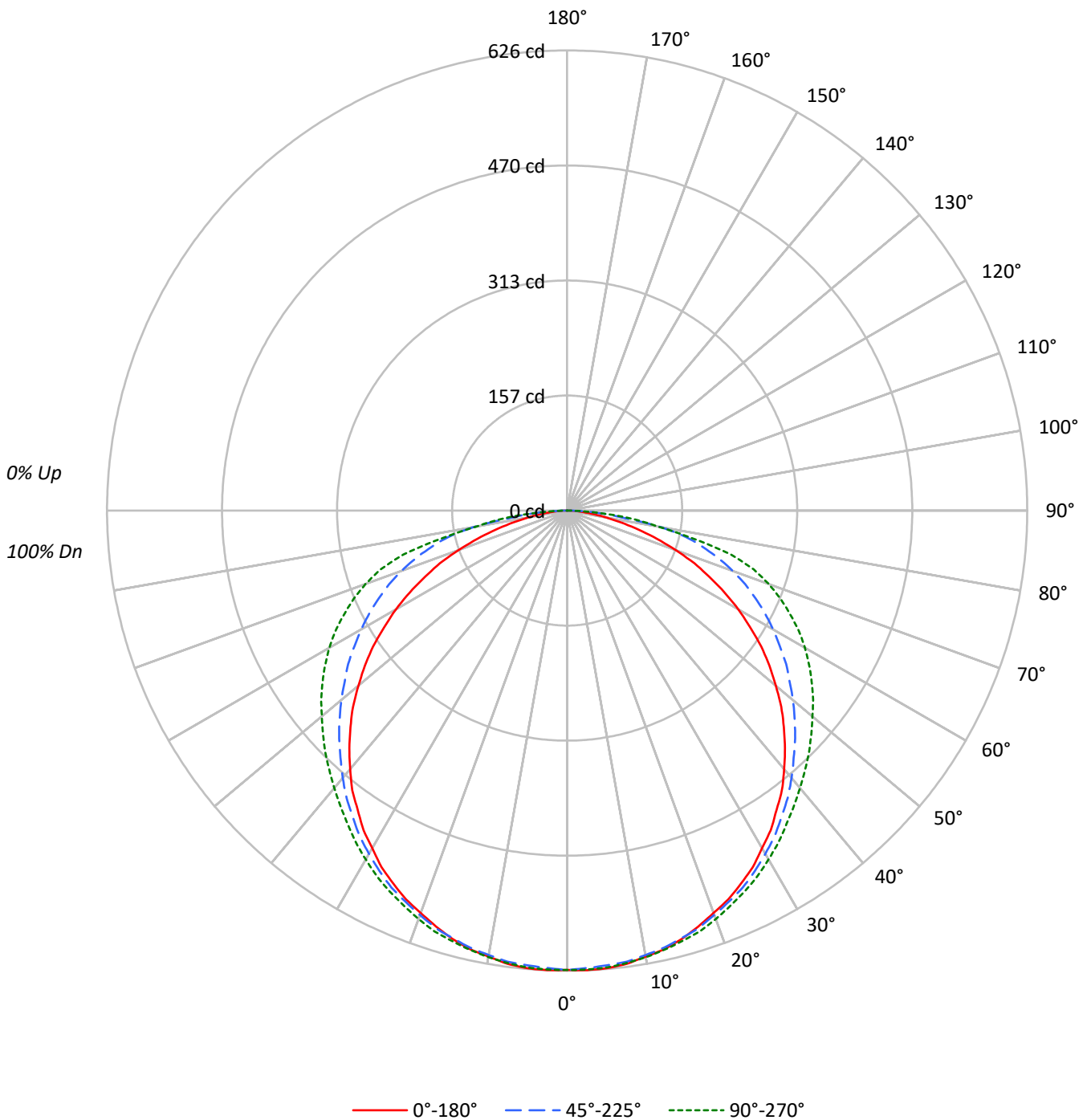
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	841	841	841
5°	844	839	843
10°	842	839	843
15°	840	839	844
20°	834	838	847
25°	831	840	849
30°	824	838	851
35°	816	835	855
40°	807	834	866
45°	793	835	885
50°	776	840	912
55°	756	853	953
60°	724	870	1005
65°	678	901	1067
70°	616	942	1148
75°	522	994	1199
80°	412	1000	970
85°	304	761	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.0
10°-20°	170.6	8.6
20°-30°	260.9	13.1
30°-40°	318.9	16.0
40°-50°	339.9	17.1
50°-60°	325.0	16.4
60°-70°	275.3	13.9
70°-80°	185.0	9.3
80°-90°	52.2	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°	490.7	24.7
0°-40°	809.6	40.7
0°-60°	1474.5	74.2
0°-90°	1987.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	625	625	625	625	625	
5°	625	624	621	624	624	59
15°	603	603	602	607	606	170
25°	560	562	566	571	572	258
35°	497	501	509	518	520	311
45°	417	424	439	457	465	322
55°	322	334	364	392	406	287
65°	213	235	283	320	335	211
75°	100	137	191	224	231	108
85°	20	40	49	53	55	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	624.9	624.9	624.9	624.9	624.9
2.5°	625.8	625.8	622.9	624.9	624.9
5°	624.9	623.9	620.9	623.9	623.9
7.5°	621.9	620.9	618.9	621.9	620.9
10°	616.0	616.0	614.0	617.0	617.0
12.5°	611.1	610.1	609.1	613.0	612.0
15°	603.2	603.2	602.2	607.1	606.1
17.5°	593.3	594.3	595.3	599.2	600.2
20°	582.5	584.4	585.4	591.3	591.3
22.5°	572.6	573.6	575.6	581.5	581.5
25°	559.8	561.8	565.7	570.6	571.6
27.5°	547.0	548.0	552.9	559.8	560.8
30°	530.2	533.2	539.1	547.0	548.0
32.5°	515.5	518.4	525.3	533.2	535.2
35°	496.7	500.7	508.6	518.4	520.4
37.5°	480.0	482.9	492.8	503.6	506.6
40°	459.3	465.2	475.0	487.9	492.8
42.5°	438.6	444.5	456.3	473.1	479.0
45°	416.9	423.8	438.6	457.3	465.2
47.5°	395.2	403.1	419.9	441.5	450.4
50°	370.6	380.4	401.1	425.8	435.6
52.5°	346.9	358.7	381.4	409.0	421.8
55°	322.3	334.1	363.7	392.3	406.1
57.5°	294.7	310.5	343.0	375.5	390.3
60°	269.1	283.8	323.3	358.7	373.5
62.5°	241.5	261.2	303.6	341.0	355.8
65°	212.9	234.6	282.9	320.3	335.1
67.5°	187.3	210.9	262.2	299.6	314.4
70°	156.7	186.3	239.5	276.9	291.7
72.5°	128.1	160.6	215.8	252.3	266.1
75°	100.5	137.0	191.2	223.7	230.6
77.5°	74.9	113.3	165.6	179.4	174.4
80°	53.2	90.7	129.1	122.2	125.2
82.5°	34.5	69.0	79.8	90.7	93.6
85°	19.7	40.4	49.3	53.2	55.2
87.5°	8.9	14.8	19.7	19.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)