

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: P277111

Luminaire Tested: **24CZ2-30-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277111
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-L92765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1748.4 lumens
Efficiency: N/A
Efficacy: 79.0 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

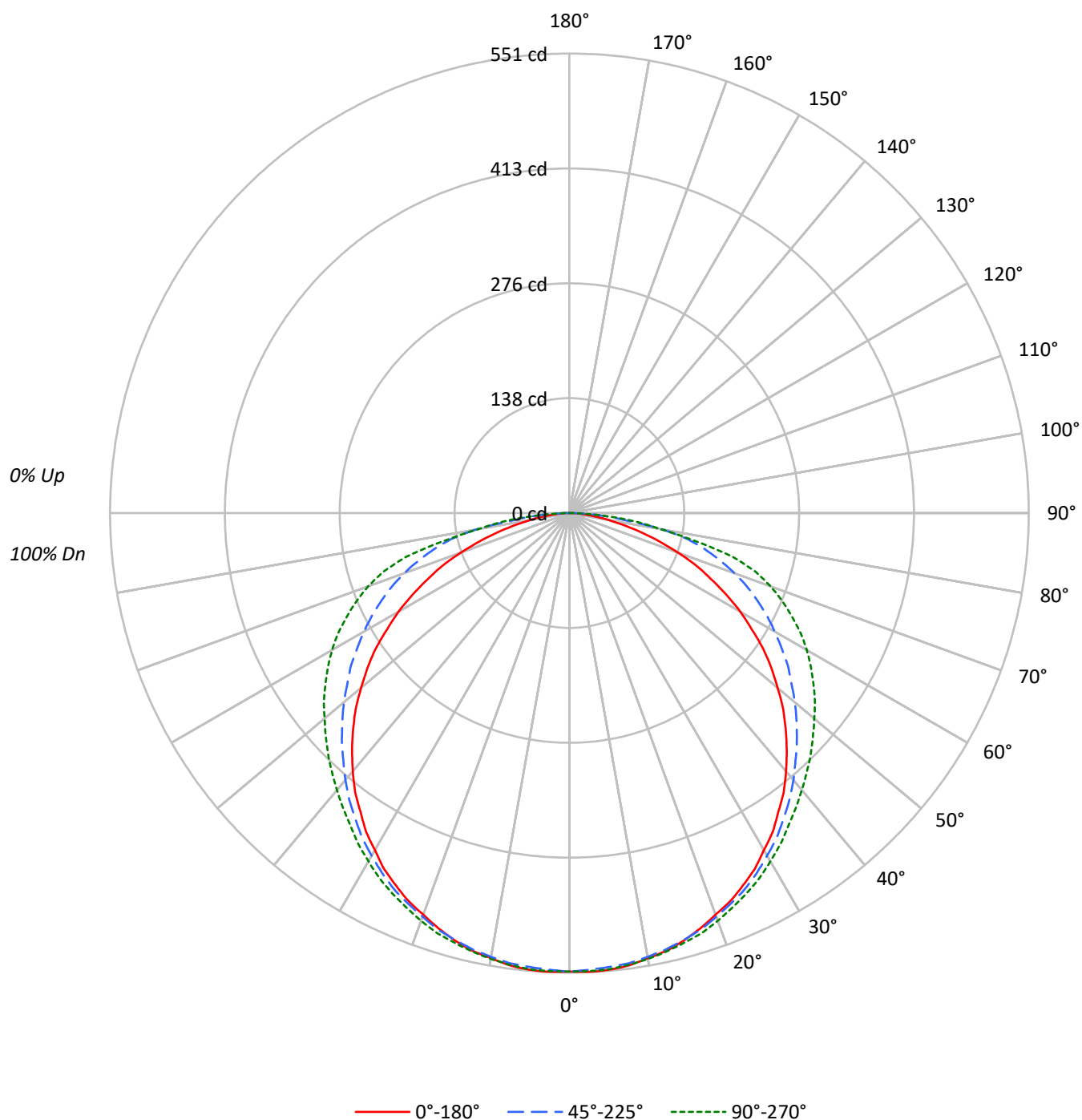
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	62	86	76	68	61	72	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	740	740	740
5°	743	738	741
10°	741	738	742
15°	739	738	743
20°	734	738	745
25°	731	739	747
30°	725	737	749
35°	718	735	752
40°	710	734	762
45°	698	734	779
50°	683	739	802
55°	665	751	838
60°	637	766	885
65°	596	792	939
70°	542	829	1010
75°	460	874	1055
80°	363	880	853
85°	267	670	750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.2	3.0
10°-20°	150.1	8.6
20°-30°	229.5	13.1
30°-40°	280.6	16.0
40°-50°	299.1	17.1
50°-60°	286.0	16.4
60°-70°	242.2	13.9
70°-80°	162.8	9.3
80°-90°	45.9	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°	431.8	24.7
0°-40°	712.4	40.7
0°-60°	1297.4	74.2
0°-90°	1748.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1748.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	550	550	550	550	550	
5°	550	549	546	549	549	52
15°	531	531	530	534	533	150
25°	493	494	498	502	503	227
35°	437	441	448	456	458	274
45°	367	373	386	402	409	283
55°	284	294	320	345	357	253
65°	187	206	249	282	295	186
75°	88	120	168	197	203	95
85°	17	36	43	47	49	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	549.8	549.8	549.8	549.8	549.8
2.5°	550.7	550.7	548.1	549.8	549.8
5°	549.8	549.0	546.4	549.0	549.0
7.5°	547.2	546.4	544.6	547.2	546.4
10°	542.0	542.0	540.3	542.9	542.9
12.5°	537.7	536.8	535.9	539.4	538.5
15°	530.7	530.7	529.9	534.2	533.3
17.5°	522.1	522.9	523.8	527.3	528.1
20°	512.5	514.3	515.1	520.3	520.3
22.5°	503.9	504.7	506.5	511.7	511.7
25°	492.6	494.3	497.8	502.1	503.0
27.5°	481.3	482.2	486.5	492.6	493.5
30°	466.6	469.2	474.4	481.3	482.2
32.5°	453.6	456.2	462.2	469.2	470.9
35°	437.1	440.6	447.5	456.2	457.9
37.5°	422.3	424.9	433.6	443.2	445.8
40°	404.1	409.3	418.0	429.3	433.6
42.5°	385.9	391.1	401.5	416.3	421.5
45°	366.8	372.9	385.9	402.4	409.3
47.5°	347.8	354.7	369.4	388.5	396.3
50°	326.1	334.7	353.0	374.6	383.3
52.5°	305.3	315.7	335.6	359.9	371.2
55°	283.6	294.0	320.0	345.2	357.3
57.5°	259.3	273.2	301.8	330.4	343.4
60°	236.8	249.8	284.5	315.7	328.7
62.5°	212.5	229.8	267.1	300.1	313.1
65°	187.3	206.4	248.9	281.8	294.9
67.5°	164.8	185.6	230.7	263.6	276.6
70°	137.9	163.9	210.7	243.7	256.7
72.5°	112.7	141.4	189.9	222.0	234.2
75°	88.5	120.5	168.2	196.9	202.9
77.5°	65.9	99.7	145.7	157.8	153.5
80°	46.8	79.8	113.6	107.5	110.1
82.5°	30.4	60.7	70.2	79.8	82.4
85°	17.3	35.6	43.4	46.8	48.6
87.5°	7.8	13.0	17.3	17.3	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)