

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: P277110

Luminaire Tested: **24CZ2-30-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277110
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-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1704.5 lumens
Efficiency: N/A
Efficacy: 77.3 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

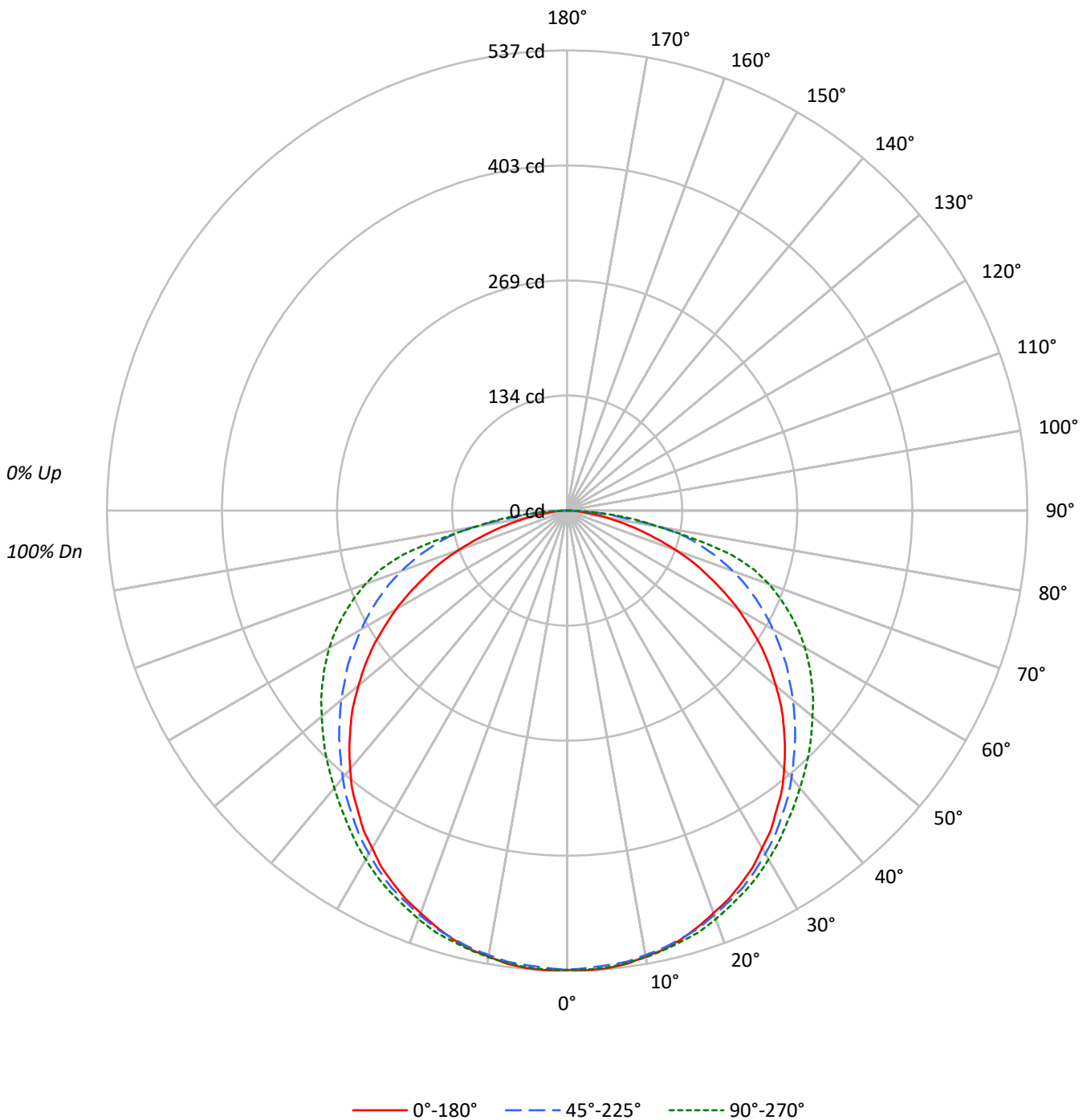
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	721	721	721
5°	724	719	723
10°	722	720	723
15°	721	720	724
20°	715	719	726
25°	713	720	728
30°	707	719	730
35°	700	717	733
40°	692	716	742
45°	680	716	759
50°	665	720	782
55°	649	732	817
60°	621	746	862
65°	581	772	915
70°	529	808	985
75°	448	853	1028
80°	354	859	832
85°	261	653	730



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.8	3.0
10°-20°	146.3	8.6
20°-30°	223.8	13.1
30°-40°	273.6	16.0
40°-50°	291.6	17.1
50°-60°	278.8	16.4
60°-70°	236.1	13.9
70°-80°	158.7	9.3
80°-90°	44.8	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°	421.0	24.7
0°-40°	694.5	40.7
0°-60°	1264.9	74.2
0°-90°	1704.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	536	536	536	536	536	
5°	536	535	533	535	535	51
15°	517	517	517	521	520	146
25°	480	482	485	490	490	221
35°	426	430	436	445	446	267
45°	358	364	376	392	399	276
55°	276	287	312	336	348	246
65°	183	201	243	275	288	181
75°	86	118	164	192	198	92
85°	17	35	42	46	47	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	536.0	536.0	536.0	536.0	536.0
2.5°	536.9	536.9	534.3	536.0	536.0
5°	536.0	535.2	532.6	535.2	535.2
7.5°	533.5	532.6	530.9	533.5	532.6
10°	528.4	528.4	526.7	529.3	529.3
12.5°	524.2	523.3	522.5	525.9	525.0
15°	517.4	517.4	516.6	520.8	520.0
17.5°	509.0	509.8	510.7	514.0	514.9
20°	499.7	501.4	502.2	507.3	507.3
22.5°	491.2	492.1	493.7	498.8	498.8
25°	480.2	481.9	485.3	489.5	490.4
27.5°	469.2	470.1	474.3	480.2	481.1
30°	454.9	457.4	462.5	469.2	470.1
32.5°	442.2	444.7	450.6	457.4	459.1
35°	426.1	429.5	436.3	444.7	446.4
37.5°	411.7	414.3	422.7	432.0	434.6
40°	394.0	399.1	407.5	418.5	422.7
42.5°	376.2	381.3	391.4	405.8	410.9
45°	357.6	363.5	376.2	392.3	399.1
47.5°	339.0	345.8	360.2	378.8	386.4
50°	317.9	326.3	344.1	365.2	373.7
52.5°	297.6	307.7	327.2	350.9	361.9
55°	276.5	286.6	312.0	336.5	348.3
57.5°	252.8	266.3	294.2	322.1	334.8
60°	230.8	243.5	277.3	307.7	320.4
62.5°	207.1	224.0	260.4	292.5	305.2
65°	182.6	201.2	242.6	274.8	287.5
67.5°	160.6	180.9	224.9	257.0	269.7
70°	134.4	159.8	205.4	237.6	250.3
72.5°	109.9	137.8	185.2	216.4	228.3
75°	86.2	117.5	164.0	191.9	197.8
77.5°	64.3	97.2	142.0	153.9	149.6
80°	45.7	77.8	110.8	104.8	107.4
82.5°	29.6	59.2	68.5	77.8	80.3
85°	16.9	34.7	42.3	45.7	47.3
87.5°	7.6	12.7	16.9	16.9	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)