

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: P277108

Luminaire Tested: **24CZ2-30-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277108
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-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1572.2 lumens
Efficiency: N/A
Efficacy: 72.9 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

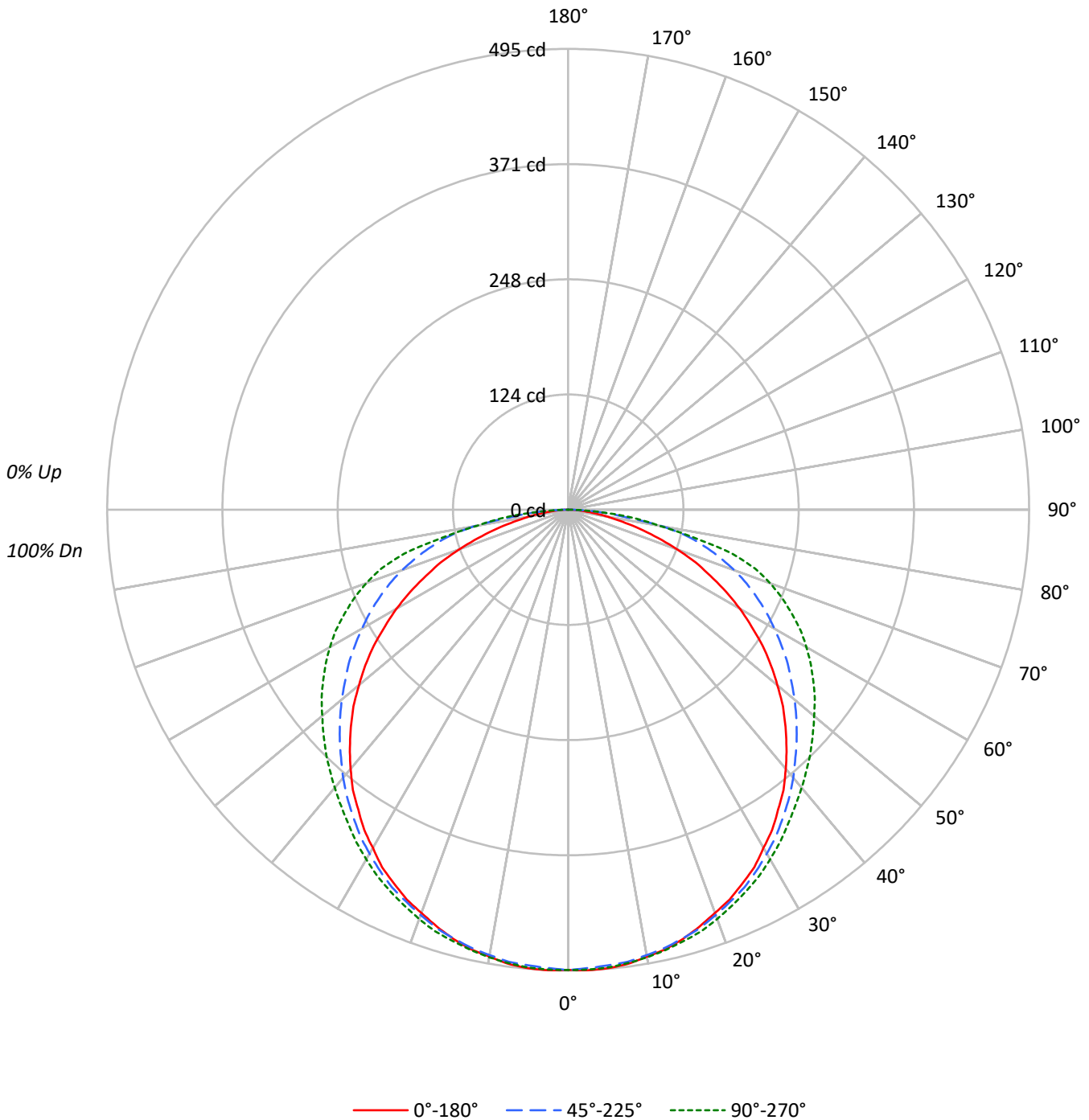
Input Watts (W): 21.576
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	665	665	665
5°	668	664	667
10°	666	664	667
15°	665	664	668
20°	660	663	670
25°	658	664	671
30°	652	663	674
35°	646	661	676
40°	638	660	685
45°	628	660	700
50°	614	664	722
55°	598	675	754
60°	573	688	795
65°	536	713	844
70°	488	745	908
75°	413	787	949
80°	326	792	767
85°	241	602	675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	3.0
10°-20°	135.0	8.6
20°-30°	206.4	13.1
30°-40°	252.3	16.0
40°-50°	268.9	17.1
50°-60°	257.1	16.4
60°-70°	217.8	13.9
70°-80°	146.4	9.3
80°-90°	41.3	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°	388.3	24.7
0°-40°	640.6	40.7
0°-60°	1166.7	74.2
0°-90°	1572.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1572.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	494	494	491	494	494	47
15°	477	477	476	480	480	135
25°	443	444	448	452	452	204
35°	393	396	402	410	412	246
45°	330	335	347	362	368	254
55°	255	264	288	310	321	227
65°	168	186	224	253	265	167
75°	80	108	151	177	182	85
85°	16	32	39	42	44	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	494.4	494.4	494.4	494.4	494.4
2.5°	495.2	495.2	492.8	494.4	494.4
5°	494.4	493.6	491.3	493.6	493.6
7.5°	492.1	491.3	489.7	492.1	491.3
10°	487.4	487.4	485.8	488.2	488.2
12.5°	483.5	482.7	481.9	485.0	484.3
15°	477.2	477.2	476.5	480.4	479.6
17.5°	469.4	470.2	471.0	474.1	474.9
20°	460.9	462.4	463.2	467.9	467.9
22.5°	453.1	453.8	455.4	460.1	460.1
25°	442.9	444.5	447.6	451.5	452.3
27.5°	432.8	433.6	437.5	442.9	443.7
30°	419.5	421.9	426.6	432.8	433.6
32.5°	407.8	410.2	415.6	421.9	423.4
35°	393.0	396.1	402.4	410.2	411.7
37.5°	379.8	382.1	389.9	398.5	400.8
40°	363.4	368.1	375.9	386.0	389.9
42.5°	347.0	351.7	361.1	374.3	379.0
45°	329.9	335.3	347.0	361.8	368.1
47.5°	312.7	318.9	332.2	349.4	356.4
50°	293.2	301.0	317.4	336.9	344.7
52.5°	274.5	283.9	301.8	323.6	333.8
55°	255.0	264.4	287.7	310.4	321.3
57.5°	233.2	245.6	271.4	297.1	308.8
60°	212.9	224.6	255.8	283.9	295.5
62.5°	191.1	206.6	240.2	269.8	281.5
65°	168.4	185.6	223.8	253.4	265.1
67.5°	148.2	166.9	207.4	237.1	248.8
70°	124.0	147.4	189.5	219.1	230.8
72.5°	101.4	127.1	170.8	199.6	210.5
75°	79.5	108.4	151.3	177.0	182.5
77.5°	59.3	89.7	131.0	141.9	138.0
80°	42.1	71.7	102.2	96.7	99.0
82.5°	27.3	54.6	63.2	71.7	74.1
85°	15.6	32.0	39.0	42.1	43.7
87.5°	7.0	11.7	15.6	15.6	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)