

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: P276858

Luminaire Tested: **24CZ2-30-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276858
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-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1640.3 lumens
Efficiency: N/A
Efficacy: 74.0 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

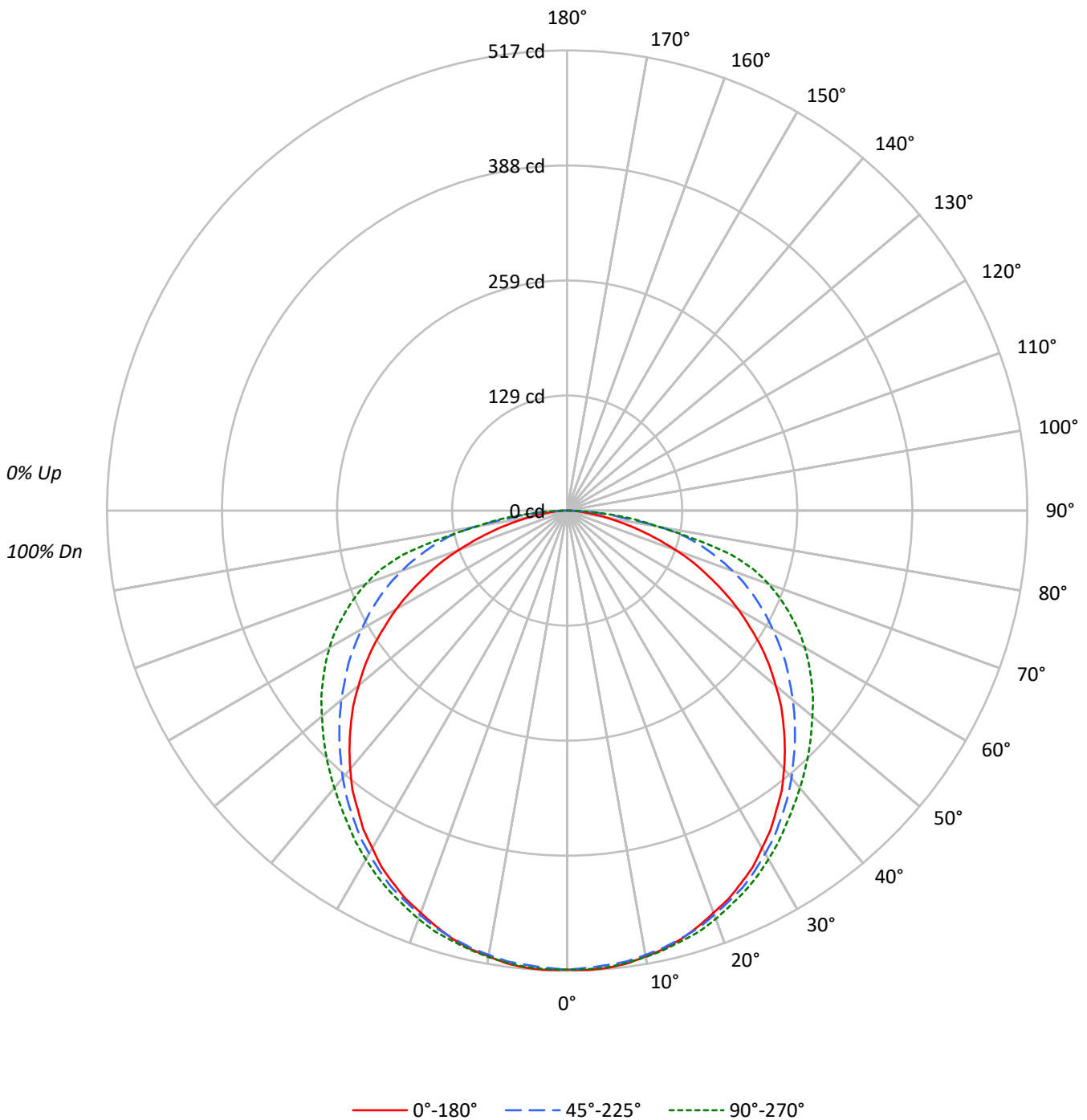
Input Watts (W): 22.175478
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	694	694	694
5°	697	692	696
10°	695	693	696
15°	694	692	697
20°	688	692	699
25°	686	693	701
30°	680	691	703
35°	674	690	706
40°	666	689	715
45°	655	689	731
50°	640	693	753
55°	624	704	786
60°	598	718	830
65°	559	743	881
70°	509	778	947
75°	431	820	990
80°	340	826	800
85°	252	628	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	3.0
10°-20°	140.8	8.6
20°-30°	215.3	13.1
30°-40°	263.3	16.0
40°-50°	280.6	17.1
50°-60°	268.3	16.4
60°-70°	227.2	13.9
70°-80°	152.7	9.3
80°-90°	43.1	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°	405.1	24.7
0°-40°	668.4	40.7
0°-60°	1217.2	74.2
0°-90°	1640.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1640.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	516	515	513	515	515	49
15°	498	498	497	501	500	140
25°	462	464	467	471	472	213
35°	410	413	420	428	430	257
45°	344	350	362	378	384	265
55°	266	276	300	324	335	237
65°	176	194	234	264	277	174
75°	83	113	158	185	190	89
85°	16	33	41	44	46	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.8	515.8	515.8	515.8	515.8
2.5°	516.6	516.6	514.2	515.8	515.8
5°	515.8	515.0	512.6	515.0	515.0
7.5°	513.4	512.6	510.9	513.4	512.6
10°	508.5	508.5	506.9	509.3	509.3
12.5°	504.4	503.6	502.8	506.1	505.2
15°	497.9	497.9	497.1	501.2	500.4
17.5°	489.8	490.6	491.4	494.7	495.5
20°	480.8	482.5	483.3	488.2	488.2
22.5°	472.7	473.5	475.1	480.0	480.0
25°	462.1	463.7	467.0	471.1	471.9
27.5°	451.5	452.4	456.4	462.1	462.9
30°	437.7	440.2	445.0	451.5	452.4
32.5°	425.5	428.0	433.6	440.2	441.8
35°	410.1	413.3	419.8	428.0	429.6
37.5°	396.2	398.7	406.8	415.7	418.2
40°	379.1	384.0	392.2	402.7	406.8
42.5°	362.0	366.9	376.7	390.5	395.4
45°	344.1	349.8	362.0	377.5	384.0
47.5°	326.3	332.8	346.6	364.5	371.8
50°	305.9	314.0	331.1	351.5	359.6
52.5°	286.4	296.1	314.9	337.6	348.2
55°	266.0	275.8	300.2	323.8	335.2
57.5°	243.3	256.3	283.1	310.0	322.2
60°	222.1	234.3	266.9	296.1	308.4
62.5°	199.3	215.6	250.6	281.5	293.7
65°	175.7	193.6	233.5	264.4	276.6
67.5°	154.6	174.1	216.4	247.3	259.5
70°	129.4	153.8	197.7	228.6	240.8
72.5°	105.8	132.6	178.2	208.3	219.7
75°	83.0	113.1	157.8	184.7	190.4
77.5°	61.8	93.6	136.7	148.1	144.0
80°	43.9	74.9	106.6	100.9	103.3
82.5°	28.5	57.0	65.9	74.9	77.3
85°	16.3	33.4	40.7	43.9	45.6
87.5°	7.3	12.2	16.3	16.3	15.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)