

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: P277018

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277018
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: 24CZ2-30HE-RDP-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1591.9 lumens
Efficiency: N/A
Efficacy: 81.9 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

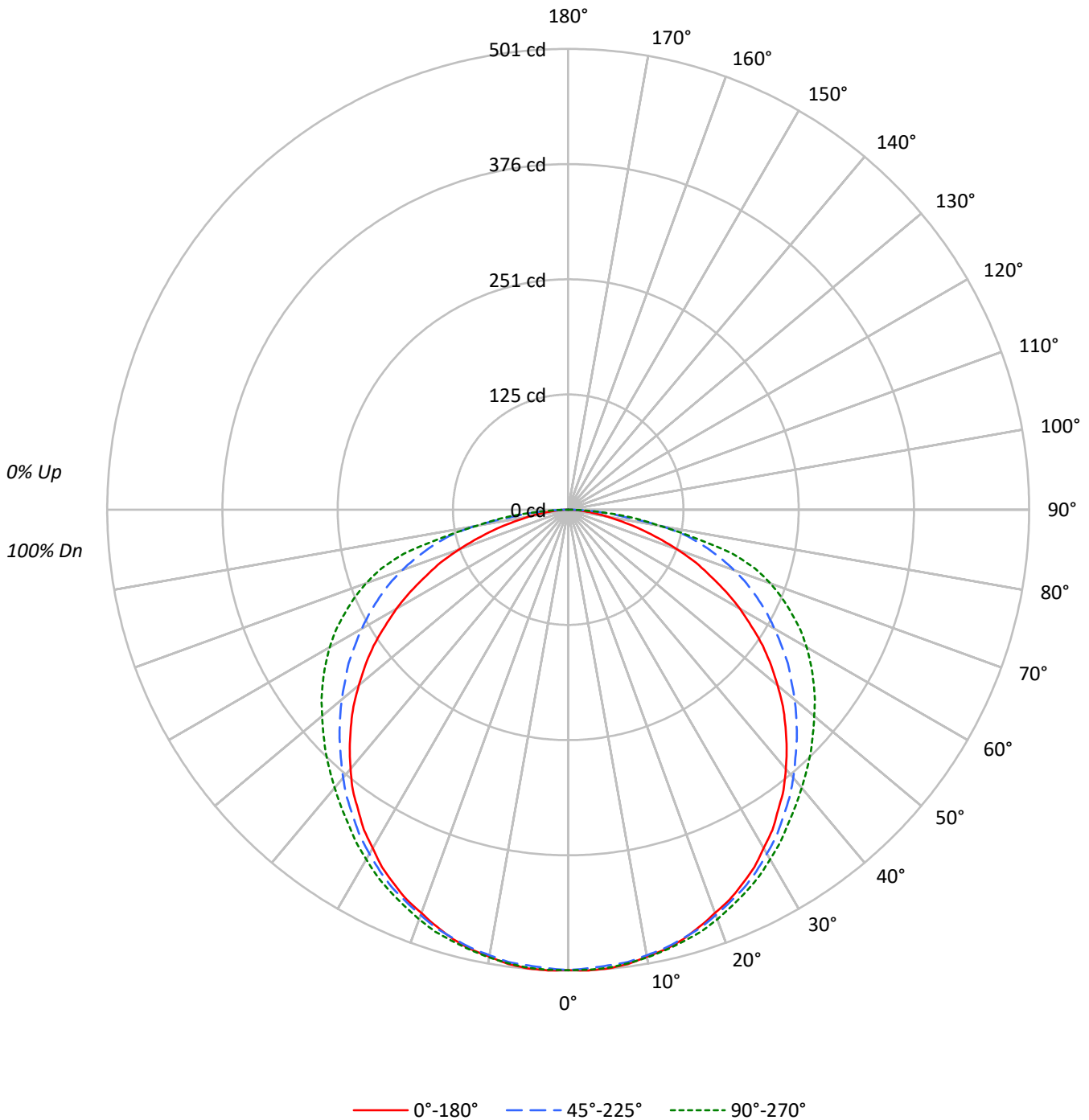
Input Watts (W): 19.437
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	68	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°	674	674	674
5°	676	672	675
10°	674	672	675
15°	673	672	676
20°	668	672	678
25°	666	673	680
30°	660	671	682
35°	654	669	685
40°	646	668	693
45°	636	669	709
50°	621	673	731
55°	606	684	763
60°	580	697	805
65°	543	721	855
70°	494	755	919
75°	418	796	961
80°	330	801	777
85°	244	610	682



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	3.0
10°-20°	136.7	8.6
20°-30°	209.0	13.1
30°-40°	255.5	16.0
40°-50°	272.3	17.1
50°-60°	260.4	16.4
60°-70°	220.5	13.9
70°-80°	148.2	9.3
80°-90°	41.8	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°	393.1	24.7
0°-40°	648.6	40.7
0°-60°	1181.3	74.2
0°-90°	1591.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1591.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	501	501	501	501	501	
5°	501	500	497	500	500	48
15°	483	483	482	486	486	136
25°	448	450	453	457	458	207
35°	398	401	407	415	417	249
45°	334	340	351	366	373	258
55°	258	268	291	314	325	230
65°	171	188	227	257	268	169
75°	80	110	153	179	185	86
85°	16	32	40	43	44	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	500.6	500.6	500.6	500.6	500.6
2.5°	501.4	501.4	499.0	500.6	500.6
5°	500.6	499.8	497.4	499.8	499.8
7.5°	498.2	497.4	495.9	498.2	497.4
10°	493.5	493.5	491.9	494.3	494.3
12.5°	489.5	488.8	488.0	491.1	490.3
15°	483.2	483.2	482.4	486.4	485.6
17.5°	475.3	476.1	476.9	480.1	480.9
20°	466.6	468.2	469.0	473.8	473.8
22.5°	458.8	459.5	461.1	465.9	465.9
25°	448.5	450.1	453.2	457.2	458.0
27.5°	438.2	439.0	443.0	448.5	449.3
30°	424.8	427.2	431.9	438.2	439.0
32.5°	413.0	415.3	420.9	427.2	428.7
35°	398.0	401.1	407.4	415.3	416.9
37.5°	384.5	386.9	394.8	403.5	405.9
40°	368.0	372.7	380.6	390.8	394.8
42.5°	351.4	356.1	365.6	379.0	383.7
45°	334.0	339.5	351.4	366.4	372.7
47.5°	316.6	322.9	336.4	353.7	360.8
50°	296.9	304.8	321.4	341.1	349.0
52.5°	277.9	287.4	305.6	327.7	337.9
55°	258.2	267.7	291.4	314.3	325.3
57.5°	236.1	248.7	274.8	300.8	312.7
60°	215.6	227.4	259.0	287.4	299.3
62.5°	193.5	209.2	243.2	273.2	285.0
65°	170.6	187.9	226.6	256.6	268.5
67.5°	150.0	169.0	210.0	240.0	251.9
70°	125.5	149.2	191.9	221.9	233.7
72.5°	102.6	128.7	172.9	202.1	213.2
75°	80.5	109.8	153.2	179.2	184.8
77.5°	60.0	90.8	132.7	143.7	139.8
80°	42.6	72.6	103.4	97.9	100.3
82.5°	27.6	55.3	64.0	72.6	75.0
85°	15.8	32.4	39.5	42.6	44.2
87.5°	7.1	11.8	15.8	15.8	15.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)