

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: P276890

Luminaire Tested: **24CZ2-30HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276890
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2041.7 lumens
Efficiency: N/A
Efficacy: 99.8 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

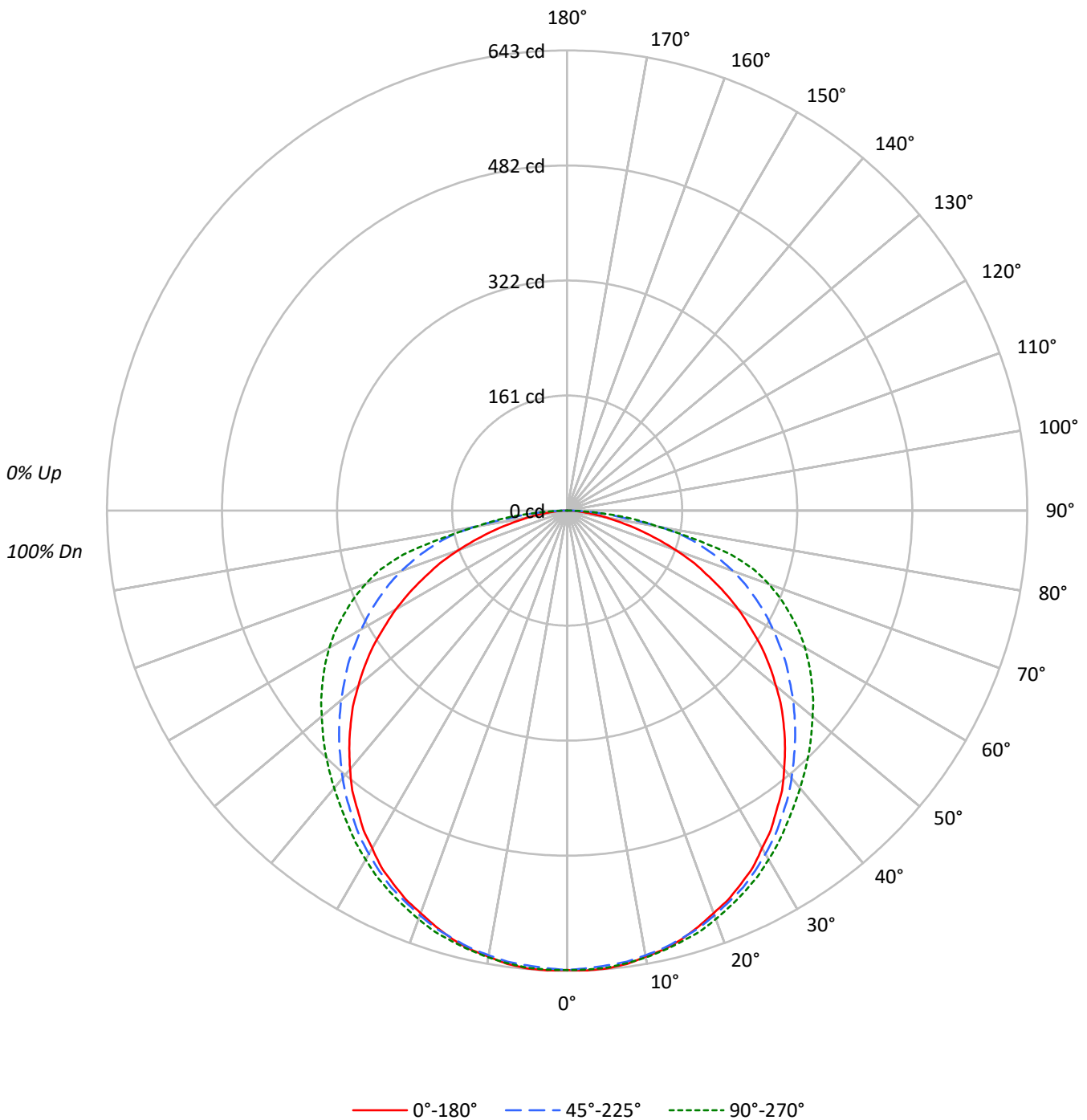
Input Watts (W): 20.46
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276890

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P276890

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-L82765-W2A1-U-6500K

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°	864	864	864
5°	867	862	866
10°	865	862	866
15°	863	862	868
20°	857	861	870
25°	854	863	872
30°	846	861	875
35°	838	858	878
40°	829	857	889
45°	815	858	910
50°	797	863	937
55°	777	877	979
60°	744	894	1033
65°	696	925	1096
70°	633	968	1179
75°	537	1022	1232
80°	424	1028	996
85°	313	781	875



TEST NUMBER: P276890

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.9	3.0
10°-20°	175.3	8.6
20°-30°	268.0	13.1
30°-40°	327.7	16.0
40°-50°	349.2	17.1
50°-60°	333.9	16.4
60°-70°	282.9	13.9
70°-80°	190.1	9.3
80°-90°	53.6	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°	504.2	24.7
0°-40°	831.9	40.7
0°-60°	1515.1	74.2
0°-90°	2041.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2041.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	642	641	638	641	641	61
15°	620	620	619	624	623	175
25°	575	577	581	586	587	265
35°	510	514	523	533	535	320
45°	428	436	451	470	478	330
55°	331	343	374	403	417	295
65°	219	241	291	329	344	217
75°	103	141	196	230	237	111
85°	20	42	51	55	57	25
90°	0	0	0	0	0	



TEST NUMBER: P276890

CATALOG NUMBER: 24CZ2-30HE-RDP-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	642.1	642.1	642.1	642.1	642.1
2.5°	643.1	643.1	640.0	642.1	642.1
5°	642.1	641.0	638.0	641.0	641.0
7.5°	639.0	638.0	636.0	639.0	638.0
10°	632.9	632.9	630.9	634.0	634.0
12.5°	627.9	626.9	625.9	629.9	628.9
15°	619.8	619.8	618.8	623.8	622.8
17.5°	609.7	610.7	611.7	615.7	616.7
20°	598.5	600.5	601.6	607.6	607.6
22.5°	588.4	589.4	591.4	597.5	597.5
25°	575.2	577.2	581.3	586.4	587.4
27.5°	562.1	563.1	568.1	575.2	576.2
30°	544.8	547.9	554.0	562.1	563.1
32.5°	529.6	532.7	539.8	547.9	549.9
35°	510.4	514.5	522.6	532.7	534.7
37.5°	493.2	496.2	506.4	517.5	520.5
40°	471.9	478.0	488.1	501.3	506.4
42.5°	450.7	456.7	468.9	486.1	492.2
45°	428.4	435.5	450.7	469.9	478.0
47.5°	406.1	414.2	431.4	453.7	462.8
50°	380.8	390.9	412.2	437.5	447.6
52.5°	356.5	368.6	391.9	420.3	433.4
55°	331.2	343.3	373.7	403.1	417.2
57.5°	302.8	319.0	352.4	385.8	401.0
60°	276.5	291.7	332.2	368.6	383.8
62.5°	248.1	268.4	311.9	350.4	365.6
65°	218.7	241.0	290.6	329.1	344.3
67.5°	192.4	216.7	269.4	307.9	323.1
70°	161.0	191.4	246.1	284.6	299.8
72.5°	131.7	165.1	221.8	259.3	273.4
75°	103.3	140.8	196.5	229.9	237.0
77.5°	77.0	116.5	170.1	184.3	179.2
80°	54.7	93.2	132.7	125.6	128.6
82.5°	35.4	70.9	82.0	93.2	96.2
85°	20.3	41.5	50.6	54.7	56.7
87.5°	9.1	15.2	20.3	20.3	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)