

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: P276267

Luminaire Tested: **24CZ2-30-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30-UNV-L92765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2248.6 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

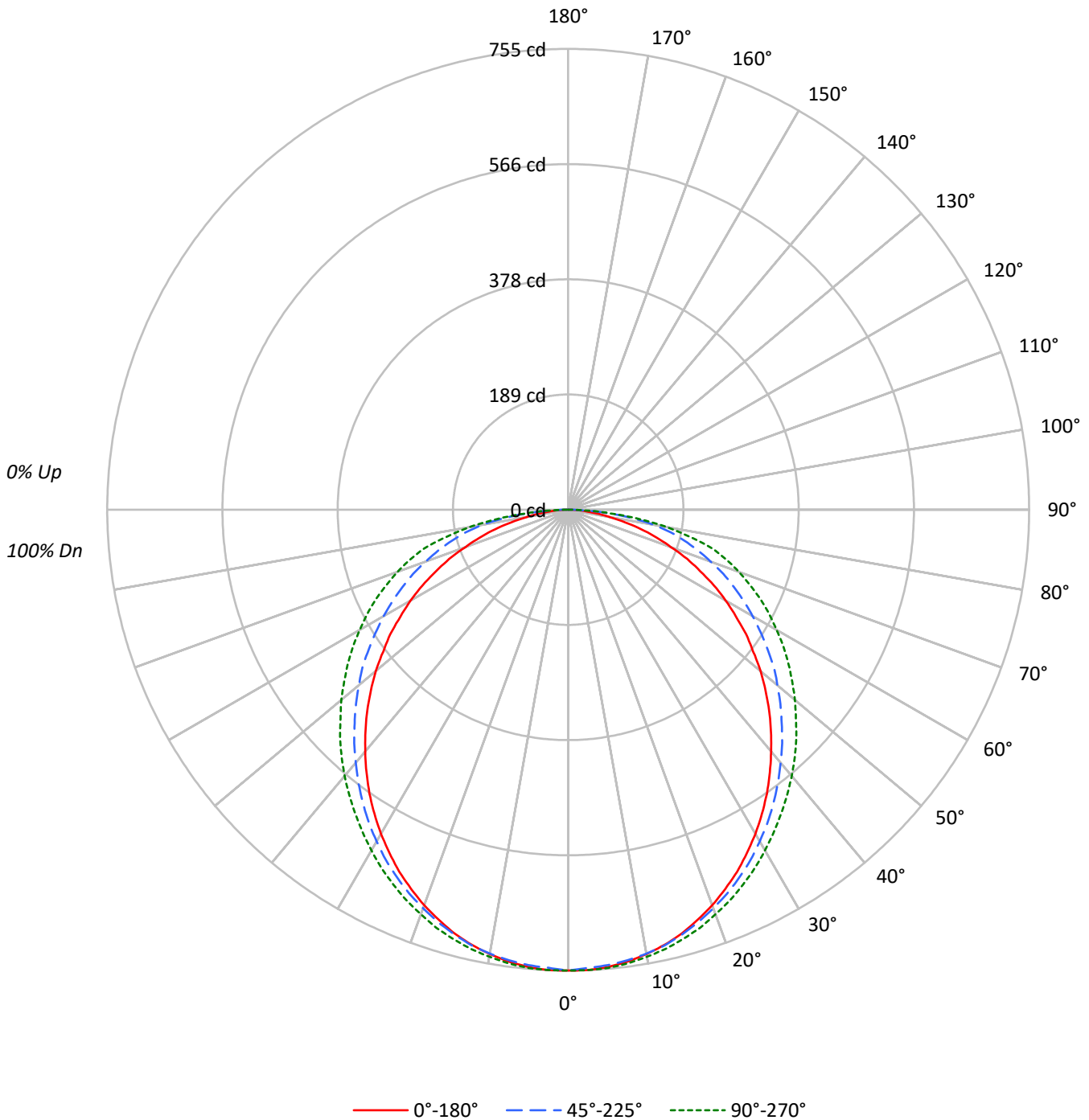
Input Watts (W): 21.669
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1016	1016	1016
5°	1016	1012	1018
10°	1010	1009	1016
15°	1002	1004	1014
20°	988	995	1010
25°	972	986	1006
30°	953	975	1002
35°	932	963	998
40°	908	950	1000
45°	885	941	1005
50°	861	936	1015
55°	834	935	1033
60°	802	939	1060
65°	760	953	1106
70°	706	977	1169
75°	644	1026	1268
80°	529	1105	1268
85°	406	1019	1088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	3.2
10°-20°	203.8	9.1
20°-30°	306.8	13.6
30°-40°	367.6	16.3
40°-50°	383.1	17.0
50°-60°	356.4	15.9
60°-70°	293.6	13.1
70°-80°	199.9	8.9
80°-90°	66.0	2.9
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°	582.0	25.9
0°-40°	949.6	42.2
0°-60°	1689.1	75.1
0°-90°	2248.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2248.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	755	755	755	755	755	
5°	752	752	749	753	754	71
15°	719	720	720	727	728	203
25°	654	657	664	675	678	301
35°	567	574	586	602	608	355
45°	465	475	495	519	528	359
55°	356	368	398	430	440	317
65°	239	259	299	335	348	237
75°	124	152	197	233	244	131
85°	26	51	66	70	70	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	755.0	755.0	755.0	755.0	755.0
2.5°	755.0	755.0	751.2	755.0	755.0
5°	752.0	752.0	749.0	752.7	753.5
7.5°	746.7	747.5	744.5	749.0	749.7
10°	739.2	740.0	738.5	743.0	743.7
12.5°	730.2	731.0	731.0	736.2	737.0
15°	719.0	719.7	720.5	727.2	728.0
17.5°	704.7	706.9	708.4	716.7	718.2
20°	689.7	691.9	694.9	703.9	705.4
22.5°	672.4	675.4	680.7	690.4	692.7
25°	654.4	657.4	664.2	675.4	677.7
27.5°	634.1	638.7	646.9	658.9	661.9
30°	613.1	617.6	627.4	640.2	644.7
32.5°	590.6	596.6	607.9	622.1	626.6
35°	567.4	574.1	586.1	601.9	607.9
37.5°	542.6	550.1	564.4	581.6	589.1
40°	517.1	526.1	541.1	561.4	569.6
42.5°	491.6	499.8	518.6	540.3	549.3
45°	465.3	475.0	494.6	519.3	528.3
47.5°	438.3	448.0	471.3	497.6	505.8
50°	411.3	421.0	447.3	475.0	484.8
52.5°	382.0	394.7	424.8	452.5	462.3
55°	355.7	367.7	398.5	430.0	440.5
57.5°	325.7	340.0	373.7	406.8	418.0
60°	297.9	312.9	349.0	382.7	394.0
62.5°	269.4	285.9	324.2	358.7	371.5
65°	238.6	258.9	299.4	334.7	347.5
67.5°	210.9	231.9	274.7	310.7	322.0
70°	179.4	204.9	248.4	284.4	297.2
72.5°	152.3	177.9	223.6	258.9	271.7
75°	123.8	151.6	197.4	232.6	243.9
77.5°	95.3	126.1	171.9	198.9	202.6
80°	68.3	100.6	142.6	158.3	163.6
82.5°	48.0	77.3	105.1	115.6	118.6
85°	26.3	51.0	66.0	70.5	70.5
87.5°	11.3	21.8	26.3	27.0	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)