

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: P277114

Luminaire Tested: **24CZ2-30-RDP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277114
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-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1819.0 lumens
Efficiency: N/A
Efficacy: 81.2 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

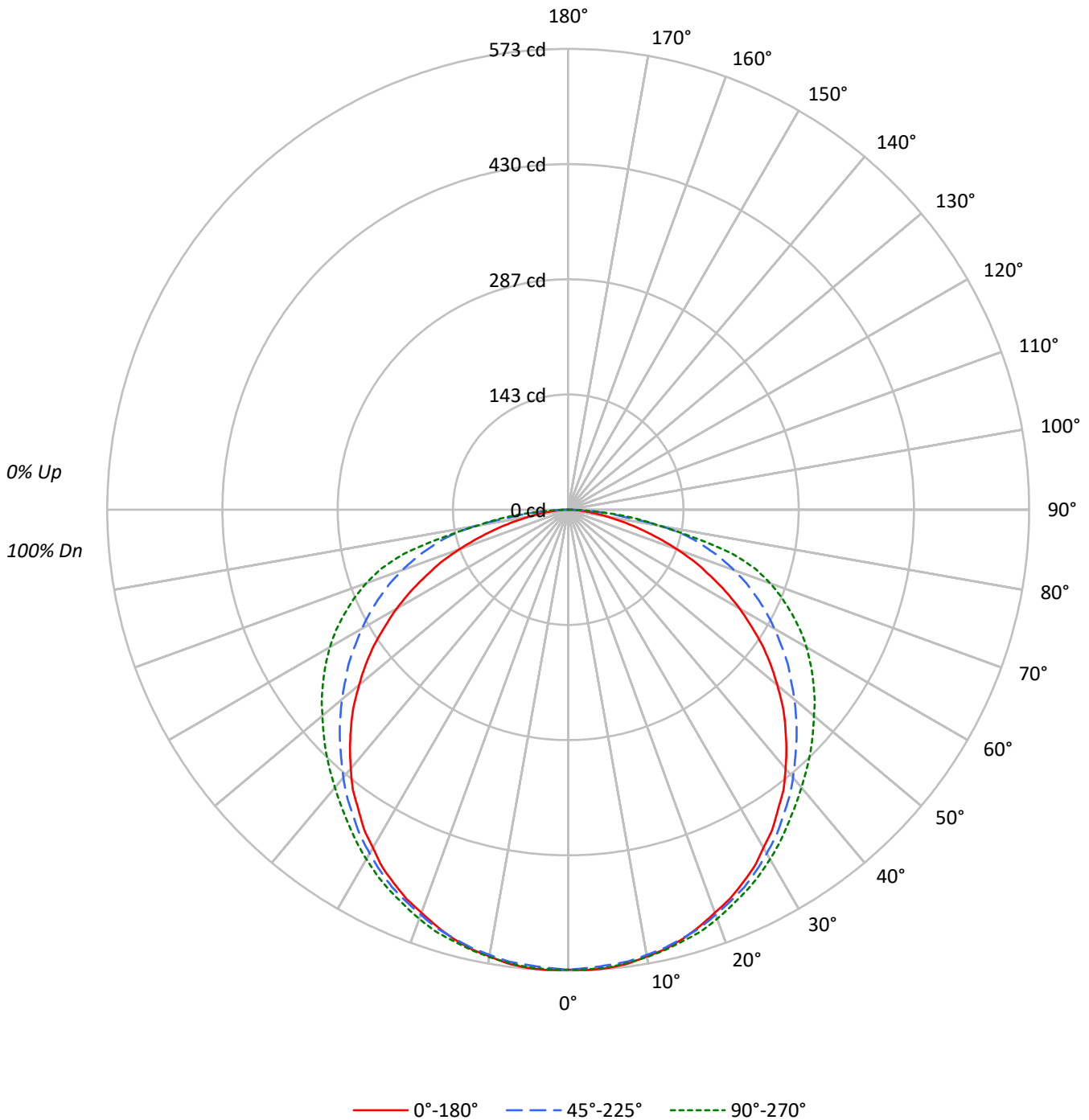
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	770	770	770
5°	773	768	771
10°	770	768	772
15°	769	768	773
20°	763	767	775
25°	761	769	777
30°	754	767	779
35°	747	765	783
40°	739	764	792
45°	726	764	810
50°	710	769	835
55°	692	781	872
60°	663	796	920
65°	621	824	977
70°	565	862	1051
75°	478	910	1097
80°	377	916	888
85°	278	696	780



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	3.0
10°-20°	156.2	8.6
20°-30°	238.8	13.1
30°-40°	291.9	16.0
40°-50°	311.2	17.1
50°-60°	297.5	16.4
60°-70°	252.0	13.9
70°-80°	169.4	9.3
80°-90°	47.8	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°	449.2	24.7
0°-40°	741.2	40.7
0°-60°	1349.8	74.2
0°-90°	1819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	572	572	572	572	572	
5°	572	571	568	571	571	54
15°	552	552	551	556	555	156
25°	512	514	518	522	523	236
35°	455	458	466	475	476	285
45°	382	388	402	419	426	294
55°	295	306	333	359	372	263
65°	195	215	259	293	307	193
75°	92	125	175	205	211	99
85°	18	37	45	49	50	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	572.0	572.0	572.0	572.0	572.0
2.5°	572.9	572.9	570.2	572.0	572.0
5°	572.0	571.1	568.4	571.1	571.1
7.5°	569.3	568.4	566.6	569.3	568.4
10°	563.9	563.9	562.1	564.8	564.8
12.5°	559.4	558.5	557.6	561.2	560.3
15°	552.2	552.2	551.3	555.8	554.9
17.5°	543.2	544.1	545.0	548.6	549.5
20°	533.2	535.0	535.9	541.4	541.4
22.5°	524.2	525.1	526.9	532.3	532.3
25°	512.5	514.3	517.9	522.4	523.3
27.5°	500.8	501.7	506.2	512.5	513.4
30°	485.4	488.1	493.5	500.8	501.7
32.5°	471.9	474.6	480.9	488.1	489.9
35°	454.7	458.3	465.6	474.6	476.4
37.5°	439.4	442.1	451.1	461.1	463.8
40°	420.5	425.9	434.9	446.6	451.1
42.5°	401.5	406.9	417.7	433.1	438.5
45°	381.7	388.0	401.5	418.6	425.9
47.5°	361.8	369.0	384.4	404.2	412.3
50°	339.2	348.3	367.2	389.8	398.8
52.5°	317.6	328.4	349.2	374.4	386.2
55°	295.0	305.9	332.9	359.1	371.7
57.5°	269.8	284.2	314.0	343.8	357.3
60°	246.3	259.8	295.9	328.4	342.0
62.5°	221.1	239.1	277.9	312.2	325.7
65°	194.9	214.7	258.9	293.2	306.8
67.5°	171.4	193.1	240.0	274.3	287.8
70°	143.5	170.5	219.2	253.5	267.1
72.5°	117.3	147.1	197.6	231.0	243.6
75°	92.0	125.4	175.0	204.8	211.1
77.5°	68.6	103.8	151.6	164.2	159.7
80°	48.7	83.0	118.2	111.9	114.6
82.5°	31.6	63.2	73.1	83.0	85.7
85°	18.0	37.0	45.1	48.7	50.5
87.5°	8.1	13.5	18.0	18.0	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)