

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: P276792

Luminaire Tested: **24CZ2-40-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276792
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: 24CZ2-40-RDP-UNV-L83050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2434.0 lumens
Efficiency: N/A
Efficacy: 80.2 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

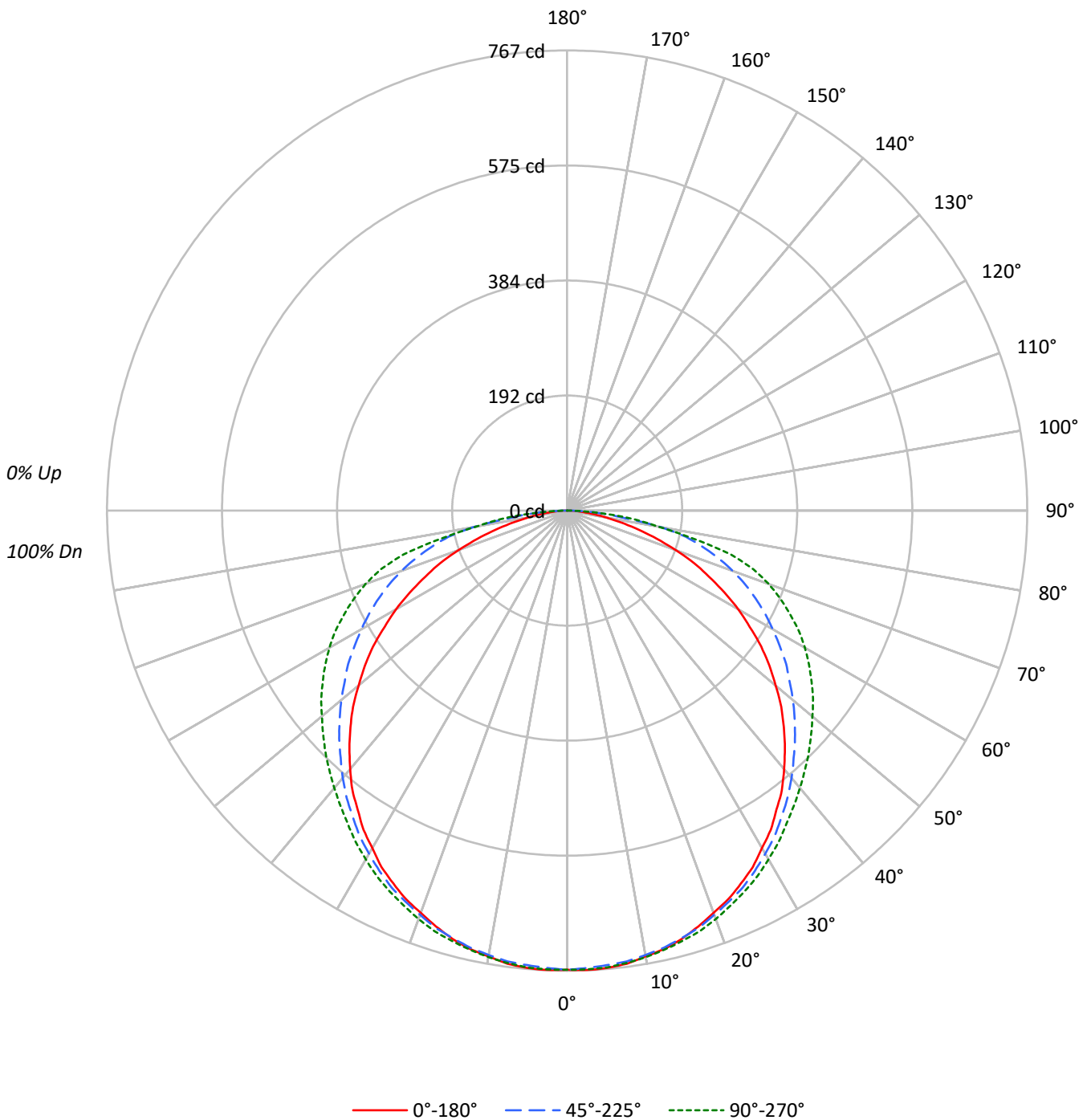
Input Watts (W): 30.350178
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1030	1030	1030
5°	1034	1027	1032
10°	1031	1028	1033
15°	1029	1028	1034
20°	1022	1027	1037
25°	1018	1029	1040
30°	1009	1026	1043
35°	999	1023	1047
40°	988	1022	1060
45°	972	1022	1084
50°	950	1029	1117
55°	926	1045	1167
60°	887	1066	1231
65°	830	1103	1307
70°	755	1154	1406
75°	640	1218	1469
80°	505	1226	1188
85°	372	932	1044



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.6	3.0
10°-20°	209.0	8.6
20°-30°	319.5	13.1
30°-40°	390.6	16.0
40°-50°	416.3	17.1
50°-60°	398.1	16.4
60°-70°	337.2	13.9
70°-80°	226.6	9.3
80°-90°	63.9	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°	601.1	24.7
0°-40°	991.8	40.7
0°-60°	1806.2	74.2
0°-90°	2434.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	765	764	761	764	764	73
15°	739	739	738	744	742	208
25°	686	688	693	699	700	316
35°	608	613	623	635	638	381
45°	511	519	537	560	570	394
55°	395	409	446	480	497	352
65°	261	287	346	392	410	259
75°	123	168	234	274	282	132
85°	24	50	60	65	68	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765.4	765.4	765.4	765.4	765.4
2.5°	766.6	766.6	763.0	765.4	765.4
5°	765.4	764.2	760.6	764.2	764.2
7.5°	761.8	760.6	758.2	761.8	760.6
10°	754.6	754.6	752.1	755.8	755.8
12.5°	748.5	747.3	746.1	750.9	749.7
15°	738.9	738.9	737.7	743.7	742.5
17.5°	726.8	728.0	729.2	734.0	735.2
20°	713.5	715.9	717.1	724.4	724.4
22.5°	701.4	702.6	705.1	712.3	712.3
25°	685.7	688.2	693.0	699.0	700.2
27.5°	670.0	671.3	677.3	685.7	686.9
30°	649.5	653.1	660.4	670.0	671.3
32.5°	631.4	635.0	643.5	653.1	655.6
35°	608.5	613.3	623.0	635.0	637.5
37.5°	588.0	591.6	603.6	616.9	620.5
40°	562.6	569.8	581.9	597.6	603.6
42.5°	537.2	544.5	559.0	579.5	586.7
45°	510.7	519.1	537.2	560.2	569.8
47.5°	484.1	493.8	514.3	540.9	551.7
50°	453.9	466.0	491.4	521.6	533.6
52.5°	425.0	439.5	467.2	501.0	516.7
55°	394.8	409.3	445.5	480.5	497.4
57.5°	361.0	380.3	420.1	460.0	478.1
60°	329.6	347.7	396.0	439.5	457.6
62.5°	295.8	319.9	371.8	417.7	435.8
65°	260.8	287.3	346.5	392.4	410.5
67.5°	229.4	258.4	321.1	367.0	385.1
70°	192.0	228.2	293.4	339.2	357.4
72.5°	156.9	196.8	264.4	309.1	326.0
75°	123.1	167.8	234.2	274.1	282.5
77.5°	91.8	138.8	202.8	219.7	213.7
80°	65.2	111.1	158.2	149.7	153.3
82.5°	42.3	84.5	97.8	111.1	114.7
85°	24.1	49.5	60.4	65.2	67.6
87.5°	10.9	18.1	24.1	24.1	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)