

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: P276286

Luminaire Tested: **24CZ2-40-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276286
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: 24CZ2-40-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3120.9 lumens
Efficiency: N/A
Efficacy: 103.6 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

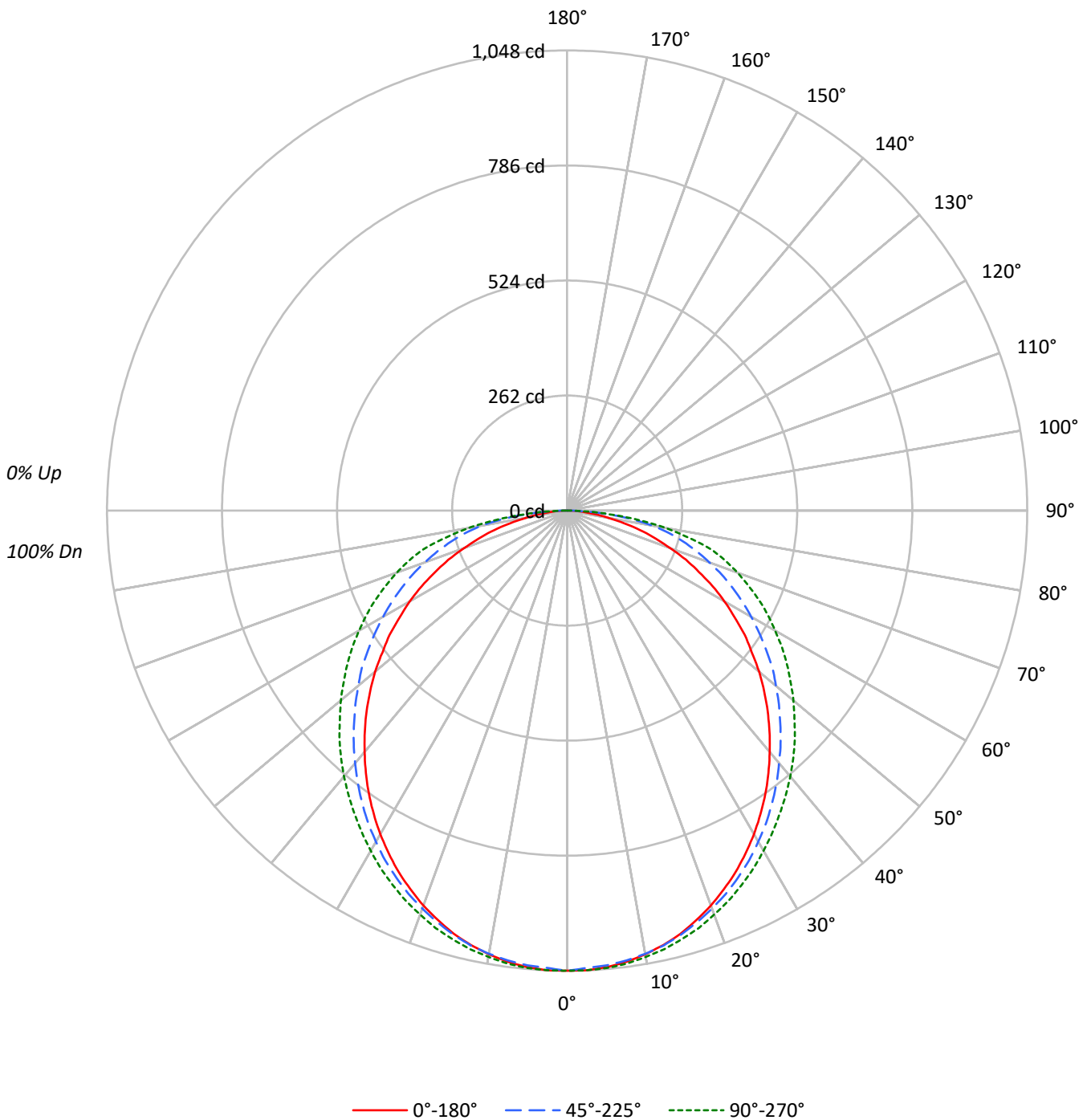
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1410	1410	1410
5°	1410	1404	1412
10°	1402	1400	1410
15°	1390	1393	1407
20°	1371	1381	1402
25°	1348	1368	1396
30°	1322	1353	1390
35°	1293	1336	1386
40°	1260	1319	1388
45°	1229	1306	1395
50°	1195	1299	1409
55°	1158	1297	1434
60°	1113	1303	1471
65°	1054	1323	1535
70°	979	1356	1623
75°	894	1424	1760
80°	735	1533	1760
85°	563	1416	1511



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.2
10°-20°	282.9	9.1
20°-30°	425.7	13.6
30°-40°	510.2	16.3
40°-50°	531.7	17.0
50°-60°	494.7	15.9
60°-70°	407.4	13.1
70°-80°	277.5	8.9
80°-90°	91.6	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°	807.8	25.9
0°-40°	1318.0	42.2
0°-60°	2344.3	75.1
0°-90°	3120.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3120.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1044	1044	1040	1045	1046	99
15°	998	999	1000	1009	1010	281
25°	908	912	922	937	940	418
35°	787	797	814	835	844	492
45°	646	659	686	721	733	498
55°	494	510	553	597	611	440
65°	331	359	416	464	482	329
75°	172	210	274	323	338	181
85°	36	71	92	98	98	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.8	1047.8	1047.8	1047.8	1047.8
2.5°	1047.8	1047.8	1042.6	1047.8	1047.8
5°	1043.6	1043.6	1039.5	1044.7	1045.7
7.5°	1036.4	1037.4	1033.2	1039.5	1040.5
10°	1025.9	1027.0	1024.9	1031.2	1032.2
12.5°	1013.4	1014.5	1014.5	1021.8	1022.8
15°	997.8	998.9	999.9	1009.3	1010.3
17.5°	978.0	981.2	983.2	994.7	996.8
20°	957.2	960.3	964.5	977.0	979.1
22.5°	933.2	937.4	944.7	958.2	961.4
25°	908.2	912.4	921.8	937.4	940.5
27.5°	880.1	886.4	897.8	914.5	918.7
30°	851.0	857.2	870.7	888.5	894.7
32.5°	819.7	828.0	843.7	863.5	869.7
35°	787.4	796.8	813.5	835.3	843.7
37.5°	753.1	763.5	783.3	807.2	817.6
40°	717.6	730.1	751.0	779.1	790.5
42.5°	682.2	693.7	719.7	749.9	762.4
45°	645.8	659.3	686.4	720.8	733.3
47.5°	608.3	621.8	654.1	690.6	702.0
50°	570.8	584.3	620.8	659.3	672.9
52.5°	530.2	547.9	589.5	628.1	641.6
55°	493.7	510.4	553.1	596.8	611.4
57.5°	452.0	471.8	518.7	564.5	580.2
60°	413.5	434.3	484.3	531.2	546.8
62.5°	373.9	396.8	450.0	497.9	515.6
65°	331.2	359.3	415.6	464.5	482.2
67.5°	292.7	321.8	381.2	431.2	446.8
70°	248.9	284.3	344.8	394.8	412.5
72.5°	211.4	246.9	310.4	359.3	377.0
75°	171.9	210.4	273.9	322.9	338.5
77.5°	132.3	175.0	238.5	276.0	281.2
80°	94.8	139.6	197.9	219.8	227.1
82.5°	66.7	107.3	145.8	160.4	164.6
85°	36.5	70.8	91.7	97.9	97.9
87.5°	15.6	30.2	36.5	37.5	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)