

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: P276272

Luminaire Tested: **24CZ2-30-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276272
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-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2652.6 lumens
Efficiency: N/A
Efficacy: 119.3 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

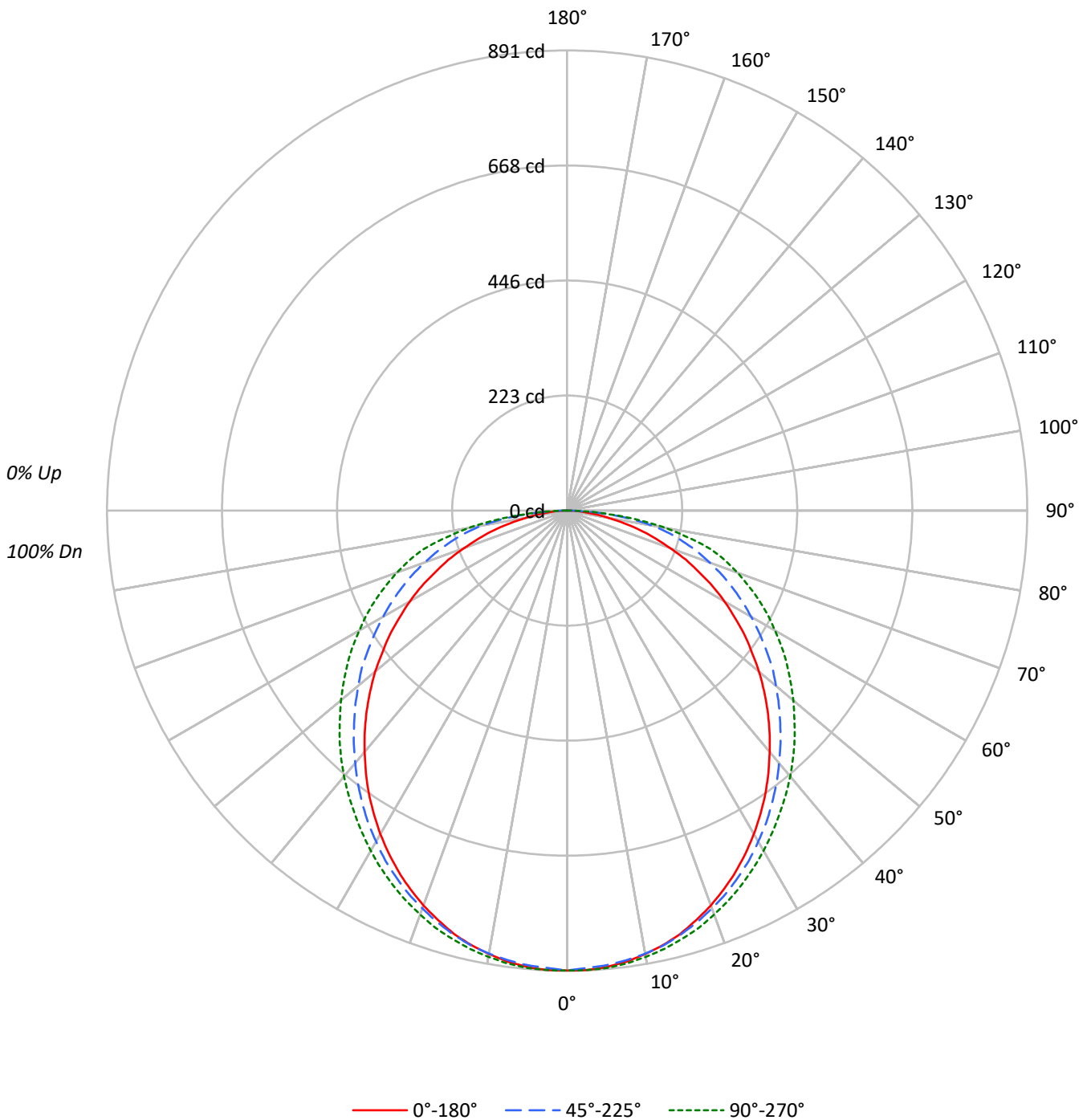
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1198	1198	1198
5°	1198	1193	1200
10°	1191	1190	1199
15°	1181	1184	1196
20°	1165	1174	1192
25°	1146	1163	1187
30°	1124	1150	1182
35°	1099	1136	1178
40°	1071	1121	1180
45°	1044	1110	1186
50°	1015	1104	1197
55°	984	1103	1219
60°	946	1108	1251
65°	896	1124	1305
70°	832	1153	1379
75°	760	1210	1496
80°	625	1303	1495
85°	479	1203	1284



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.2
10°-20°	240.5	9.1
20°-30°	361.9	13.6
30°-40°	433.7	16.3
40°-50°	451.9	17.0
50°-60°	420.5	15.9
60°-70°	346.3	13.1
70°-80°	235.8	8.9
80°-90°	77.9	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°	686.6	25.9
0°-40°	1120.2	42.2
0°-60°	1992.6	75.1
0°-90°	2652.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2652.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	887	887	884	888	889	84
15°	848	849	850	858	859	239
25°	772	776	784	797	799	355
35°	669	677	691	710	717	418
45°	549	560	583	613	623	423
55°	420	434	470	507	520	374
65°	282	305	353	395	410	279
75°	146	179	233	274	288	154
85°	31	60	78	83	83	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	890.6	890.6	890.6	890.6	890.6
2.5°	890.6	890.6	886.2	890.6	890.6
5°	887.1	887.1	883.5	887.9	888.8
7.5°	880.9	881.7	878.2	883.5	884.4
10°	872.0	872.9	871.1	876.4	877.3
12.5°	861.4	862.3	862.3	868.5	869.3
15°	848.1	849.0	849.9	857.8	858.7
17.5°	831.3	833.9	835.7	845.4	847.2
20°	813.6	816.2	819.8	830.4	832.2
22.5°	793.2	796.8	803.0	814.5	817.1
25°	772.0	775.5	783.5	796.8	799.4
27.5°	748.1	753.4	763.1	777.3	780.8
30°	723.3	728.6	740.1	755.1	760.5
32.5°	696.7	703.8	717.1	733.9	739.2
35°	669.3	677.2	691.4	710.0	717.1
37.5°	640.1	648.9	665.7	686.1	694.9
40°	610.0	620.6	638.3	662.2	671.9
42.5°	579.9	589.6	611.7	637.4	648.0
45°	548.9	560.4	583.4	612.6	623.2
47.5°	517.0	528.5	556.0	586.9	596.7
50°	485.1	496.6	527.6	560.4	571.9
52.5°	450.6	465.7	501.1	533.8	545.3
55°	419.6	433.8	470.1	507.3	519.7
57.5°	384.2	401.0	440.9	479.8	493.1
60°	351.5	369.2	411.7	451.5	464.8
62.5°	317.8	337.3	382.4	423.2	438.2
65°	281.5	305.4	353.2	394.8	409.9
67.5°	248.8	273.6	324.0	366.5	379.8
70°	211.6	241.7	293.0	335.5	350.6
72.5°	179.7	209.8	263.8	305.4	320.5
75°	146.1	178.8	232.8	274.4	287.7
77.5°	112.4	148.7	202.7	234.6	239.0
80°	80.6	118.6	168.2	186.8	193.0
82.5°	56.7	91.2	123.9	136.3	139.9
85°	31.0	60.2	77.9	83.2	83.2
87.5°	13.3	25.7	31.0	31.9	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)