

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: P276271

Luminaire Tested: **24CZ2-30-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276271
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2599.6 lumens
Efficiency: N/A
Efficacy: 117.4 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

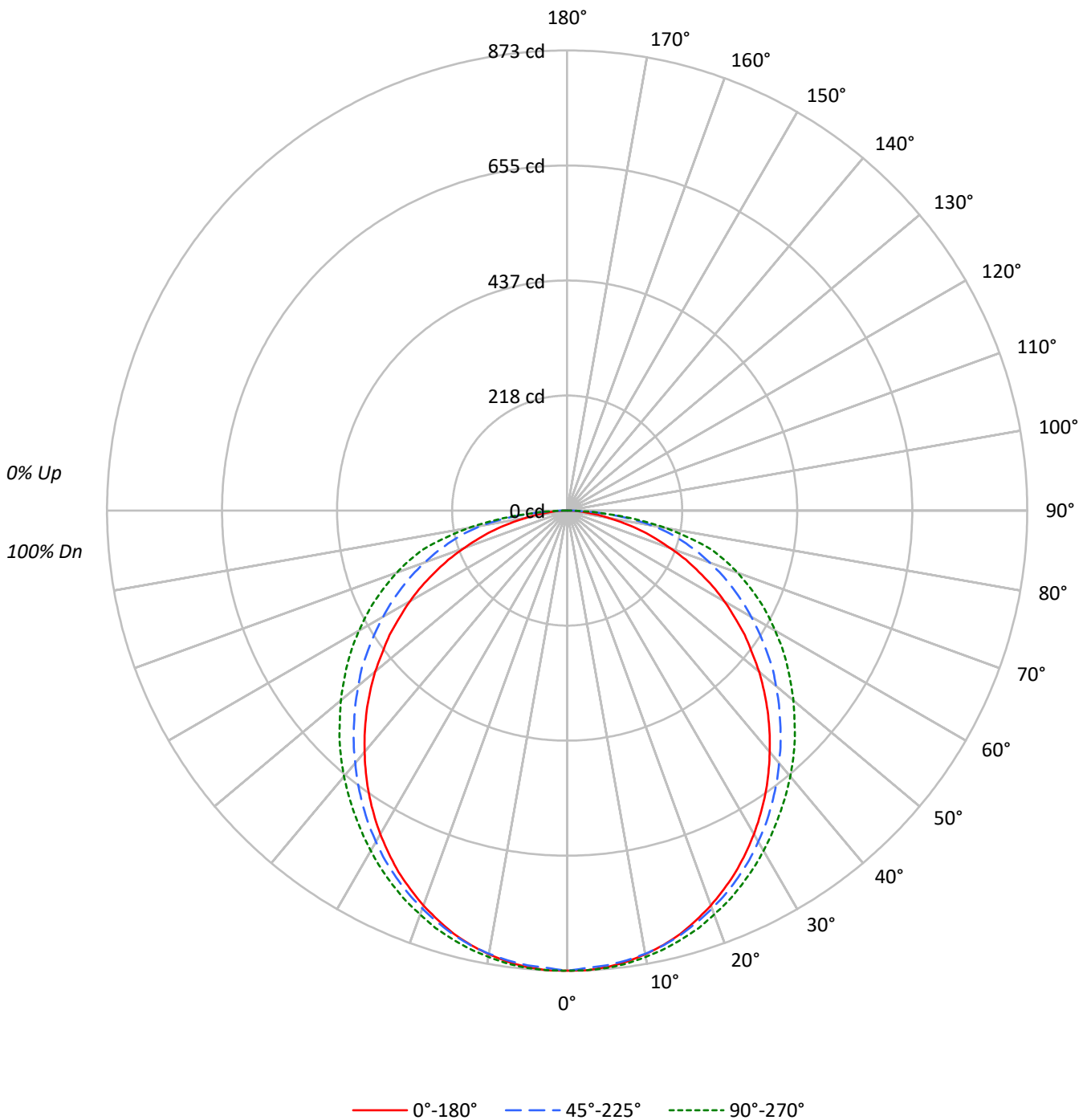
Input Watts (W): 22.134
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1174	1174	1174
5°	1174	1170	1177
10°	1168	1166	1175
15°	1158	1160	1172
20°	1142	1150	1168
25°	1123	1140	1163
30°	1101	1127	1158
35°	1077	1113	1154
40°	1050	1099	1157
45°	1024	1088	1162
50°	995	1082	1173
55°	965	1081	1195
60°	927	1086	1226
65°	878	1102	1279
70°	816	1130	1352
75°	744	1186	1466
80°	612	1277	1465
85°	469	1178	1260



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.5	3.2
10°-20°	235.7	9.1
20°-30°	354.6	13.6
30°-40°	425.0	16.3
40°-50°	442.9	17.0
50°-60°	412.1	15.9
60°-70°	339.4	13.1
70°-80°	231.1	8.9
80°-90°	76.3	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°	672.8	25.9
0°-40°	1097.8	42.2
0°-60°	1952.8	75.1
0°-90°	2599.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2599.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	869	869	866	870	871	83
15°	831	832	833	841	842	234
25°	757	760	768	781	783	348
35°	656	664	678	696	703	410
45°	538	549	572	600	611	415
55°	411	425	461	497	509	367
65°	276	299	346	387	402	274
75°	143	175	228	269	282	151
85°	30	59	76	82	82	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	872.8	872.8	872.8	872.8	872.8
2.5°	872.8	872.8	868.5	872.8	872.8
5°	869.3	869.3	865.9	870.2	871.1
7.5°	863.3	864.1	860.7	865.9	866.7
10°	854.6	855.5	853.7	858.9	859.8
12.5°	844.2	845.0	845.0	851.1	852.0
15°	831.2	832.0	832.9	840.7	841.6
17.5°	814.7	817.3	819.0	828.6	830.3
20°	797.3	799.9	803.4	813.8	815.5
22.5°	777.4	780.8	786.9	798.2	800.8
25°	756.6	760.0	767.8	780.8	783.4
27.5°	733.1	738.3	747.9	761.8	765.2
30°	708.8	714.0	725.3	740.1	745.3
32.5°	682.8	689.7	702.8	719.2	724.4
35°	655.9	663.7	677.6	695.8	702.8
37.5°	627.3	636.0	652.4	672.4	681.1
40°	597.8	608.2	625.5	649.0	658.5
42.5°	568.3	577.8	599.5	624.7	635.1
45°	537.9	549.2	571.8	600.4	610.8
47.5°	506.7	518.0	544.9	575.2	584.8
50°	475.4	486.7	517.1	549.2	560.5
52.5°	441.6	456.4	491.1	523.2	534.4
55°	411.2	425.1	460.7	497.1	509.3
57.5°	376.5	393.0	432.1	470.2	483.3
60°	344.4	361.8	403.4	442.5	455.5
62.5°	311.5	330.6	374.8	414.7	429.5
65°	275.9	299.3	346.2	387.0	401.7
67.5°	243.8	268.1	317.5	359.2	372.2
70°	207.4	236.9	287.2	328.8	343.6
72.5°	176.1	205.6	258.5	299.3	314.1
75°	143.2	175.3	228.2	269.0	282.0
77.5°	110.2	145.8	198.7	229.9	234.3
80°	79.0	116.3	164.8	183.1	189.1
82.5°	55.5	89.4	121.5	133.6	137.1
85°	30.4	59.0	76.3	81.6	81.6
87.5°	13.0	25.2	30.4	31.2	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)