

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: P276135

Luminaire Tested: **24CZ2-30-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276135
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-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2864.5 lumens
Efficiency: N/A
Efficacy: 130.0 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

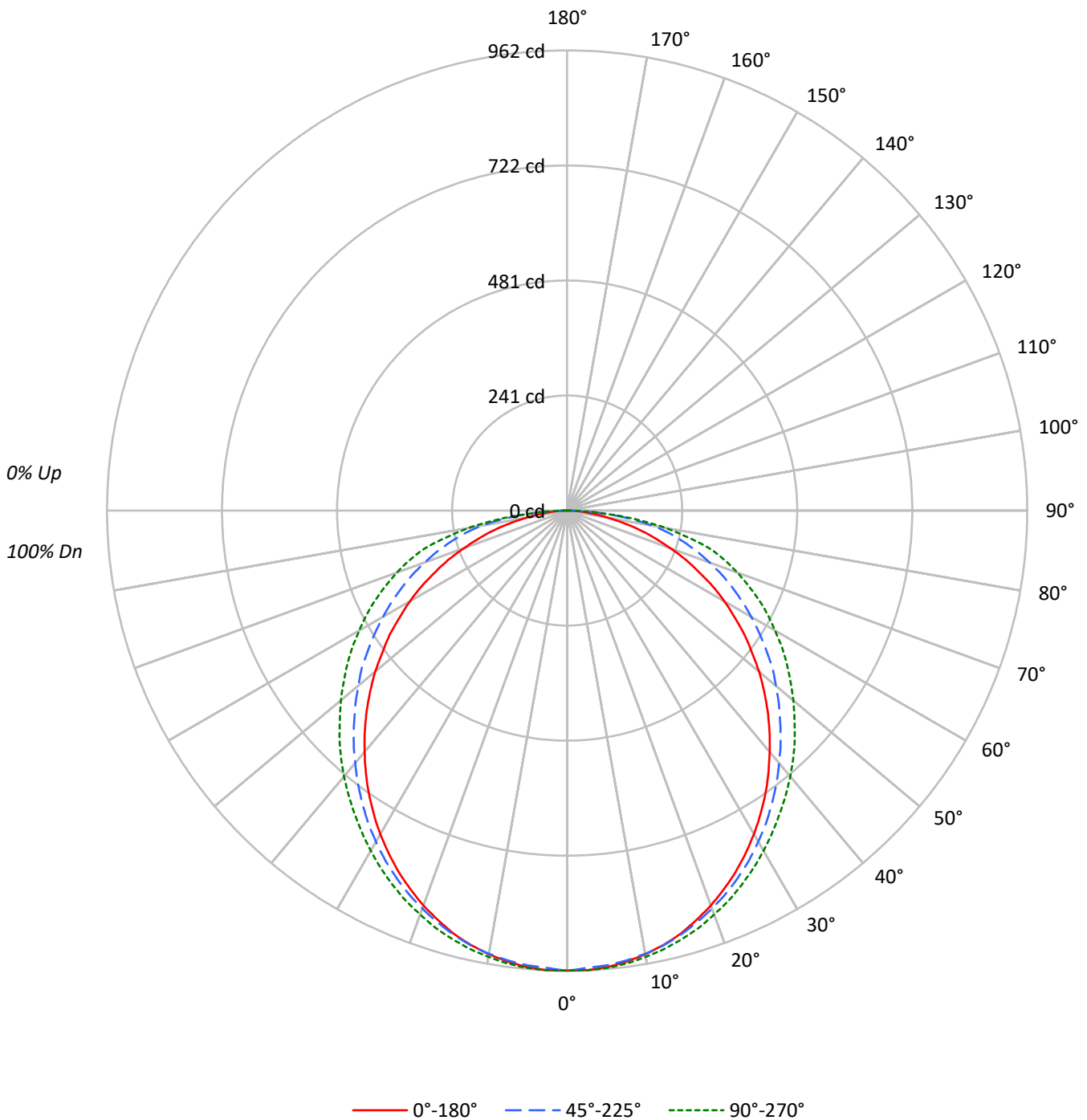
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82					82			
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67					67			
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56					56			
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48					48			
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41					41			
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36					36			
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1294	1294	1294
5°	1294	1289	1296
10°	1287	1285	1294
15°	1276	1278	1292
20°	1258	1268	1287
25°	1238	1256	1282
30°	1214	1242	1276
35°	1187	1226	1272
40°	1157	1211	1274
45°	1128	1199	1281
50°	1097	1193	1293
55°	1063	1191	1316
60°	1021	1196	1351
65°	968	1214	1409
70°	899	1245	1489
75°	820	1307	1615
80°	674	1407	1615
85°	517	1298	1388



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.2
10°-20°	259.7	9.1
20°-30°	390.8	13.6
30°-40°	468.3	16.3
40°-50°	488.0	17.0
50°-60°	454.0	15.9
60°-70°	374.0	13.1
70°-80°	254.7	8.9
80°-90°	84.1	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°	741.4	25.9
0°-40°	1209.7	42.2
0°-60°	2151.8	75.1
0°-90°	2864.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2864.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	962	962	962	962	962	
5°	958	958	954	959	960	91
15°	916	917	918	926	927	258
25°	834	838	846	860	863	384
35°	723	731	747	767	774	452
45°	593	605	630	662	673	457
55°	453	468	508	548	561	404
65°	304	330	381	426	443	302
75°	158	193	251	296	311	166
85°	34	65	84	90	90	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.7	961.7	961.7	961.7	961.7
2.5°	961.7	961.7	957.0	961.7	961.7
5°	957.9	957.9	954.1	958.9	959.8
7.5°	951.2	952.2	948.4	954.1	955.0
10°	941.7	942.6	940.7	946.4	947.4
12.5°	930.2	931.1	931.1	937.8	938.8
15°	915.9	916.8	917.8	926.4	927.3
17.5°	897.7	900.6	902.5	913.0	914.9
20°	878.6	881.4	885.3	896.7	898.6
22.5°	856.6	860.4	867.1	879.5	882.4
25°	833.6	837.5	846.1	860.4	863.3
27.5°	807.8	813.6	824.1	839.4	843.2
30°	781.1	786.8	799.2	815.5	821.2
32.5°	752.4	760.0	774.4	792.5	798.3
35°	722.7	731.3	746.6	766.7	774.4
37.5°	691.2	700.8	718.9	740.9	750.5
40°	658.7	670.2	689.3	715.1	725.6
42.5°	626.2	636.7	660.6	688.3	699.8
45°	592.7	605.2	630.0	661.6	673.0
47.5°	558.3	570.7	600.4	633.8	644.3
50°	523.9	536.3	569.8	605.2	617.6
52.5°	486.6	502.9	541.1	576.5	588.9
55°	453.1	468.4	507.6	547.8	561.2
57.5°	414.9	433.1	476.1	518.2	532.5
60°	379.5	398.7	444.5	487.6	501.9
62.5°	343.2	364.2	413.0	457.0	473.2
65°	304.0	329.8	381.4	426.4	442.6
67.5°	268.6	295.4	349.9	395.8	410.1
70°	228.5	261.0	316.4	362.3	378.6
72.5°	194.1	226.6	284.9	329.8	346.1
75°	157.7	193.1	251.4	296.4	310.7
77.5°	121.4	160.6	218.9	253.3	258.1
80°	87.0	128.1	181.6	201.7	208.4
82.5°	61.2	98.5	133.8	147.2	151.0
85°	33.5	65.0	84.1	89.9	89.9
87.5°	14.3	27.7	33.5	34.4	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)