

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: P276279

Luminaire Tested: **24CZ2-35-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276279
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: 24CZ2-35-UNV-L92765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2972.3 lumens
Efficiency: N/A
Efficacy: 112.9 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

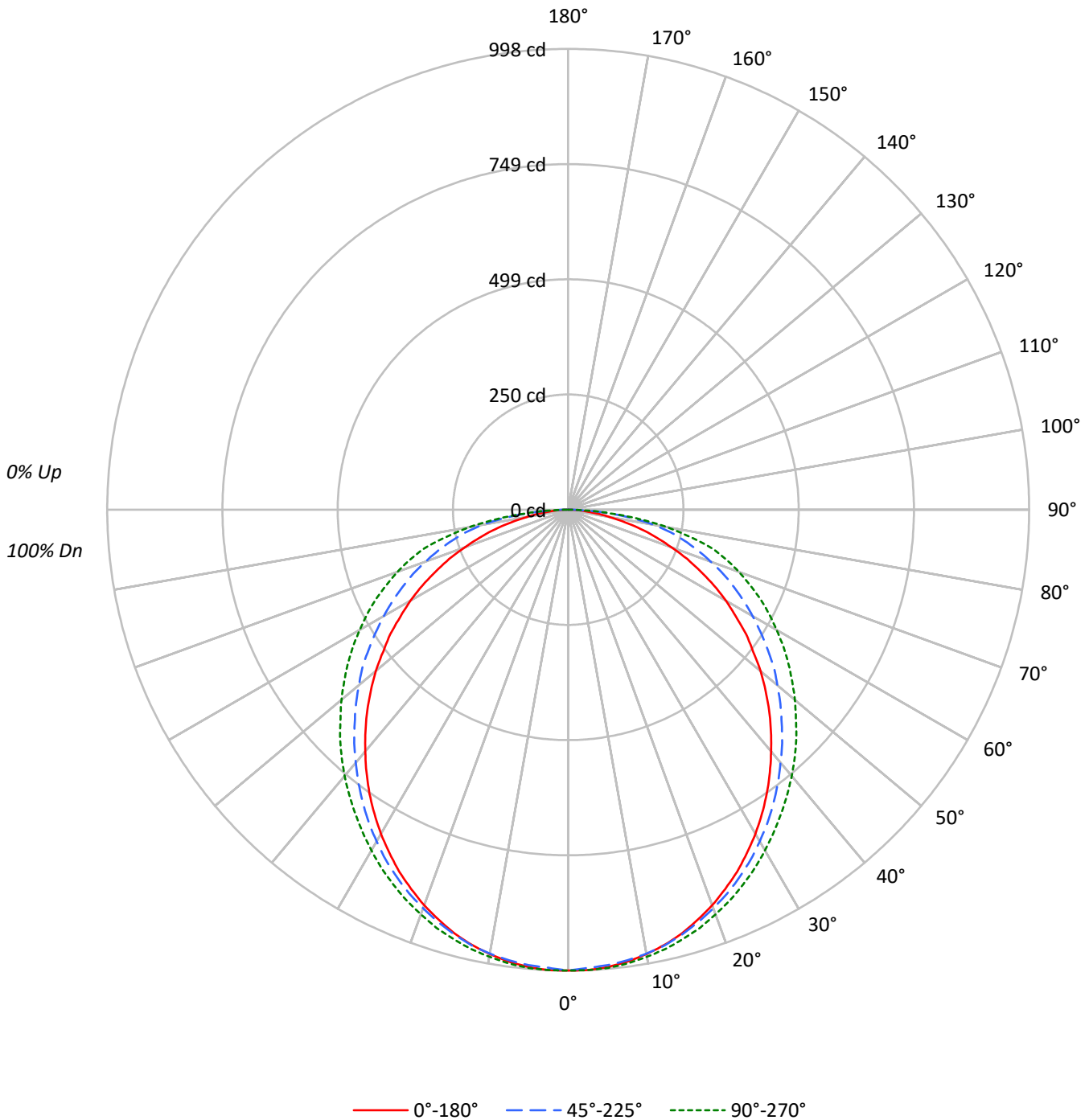
Input Watts (W): 26.319
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1343	1343	1343
5°	1343	1337	1345
10°	1335	1334	1343
15°	1324	1327	1340
20°	1305	1315	1335
25°	1284	1303	1330
30°	1259	1288	1324
35°	1232	1273	1320
40°	1201	1256	1322
45°	1170	1244	1329
50°	1138	1238	1341
55°	1103	1236	1366
60°	1060	1241	1401
65°	1004	1260	1462
70°	933	1292	1545
75°	851	1356	1676
80°	700	1461	1676
85°	536	1348	1439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.2
10°-20°	269.5	9.1
20°-30°	405.5	13.6
30°-40°	485.9	16.3
40°-50°	506.4	17.0
50°-60°	471.1	15.9
60°-70°	388.0	13.1
70°-80°	264.3	8.9
80°-90°	87.3	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°	769.3	25.9
0°-40°	1255.2	42.2
0°-60°	2232.8	75.1
0°-90°	2972.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2972.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	998	998	998	998	998	
5°	994	994	990	995	996	94
15°	950	951	952	961	962	268
25°	865	869	878	893	896	398
35°	750	759	775	796	804	469
45°	615	628	654	686	698	474
55°	470	486	527	568	582	419
65°	316	342	396	442	459	313
75°	164	200	261	308	322	173
85°	35	68	87	93	93	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.0	998.0	998.0	998.0	998.0
2.5°	998.0	998.0	993.0	998.0	998.0
5°	994.0	994.0	990.0	995.0	996.0
7.5°	987.0	988.0	984.1	990.0	991.0
10°	977.1	978.1	976.1	982.1	983.1
12.5°	965.2	966.2	966.2	973.2	974.1
15°	950.3	951.3	952.3	961.2	962.2
17.5°	931.5	934.5	936.4	947.4	949.3
20°	911.6	914.6	918.6	930.5	932.5
22.5°	888.8	892.8	899.7	912.6	915.6
25°	865.0	869.0	877.9	892.8	895.8
27.5°	838.2	844.2	855.1	871.0	874.9
30°	810.5	816.4	829.3	846.2	852.1
32.5°	780.7	788.6	803.5	822.4	828.3
35°	750.0	758.9	774.8	795.6	803.5
37.5°	717.2	727.1	746.0	768.8	778.7
40°	683.5	695.4	715.2	742.0	752.9
42.5°	649.8	660.7	685.5	714.2	726.1
45°	615.0	627.9	653.7	686.5	698.4
47.5°	579.3	592.2	623.0	657.7	668.6
50°	543.6	556.5	591.2	627.9	640.8
52.5°	504.9	521.8	561.5	598.2	611.1
55°	470.2	486.1	526.8	568.4	582.3
57.5°	430.5	449.4	494.0	537.7	552.5
60°	393.8	413.7	461.3	505.9	520.8
62.5°	356.1	378.0	428.5	474.2	491.0
65°	315.5	342.2	395.8	442.4	459.3
67.5°	278.8	306.5	363.1	410.7	425.6
70°	237.1	270.8	328.4	376.0	392.8
72.5°	201.4	235.1	295.6	342.2	359.1
75°	163.7	200.4	260.9	307.5	322.4
77.5°	126.0	166.7	227.2	262.9	267.8
80°	90.3	132.9	188.5	209.3	216.3
82.5°	63.5	102.2	138.9	152.8	156.7
85°	34.7	67.5	87.3	93.2	93.2
87.5°	14.9	28.8	34.7	35.7	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)