

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: P276270

Luminaire Tested: **24CZ2-30-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276270
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-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: 2534.4 lumens
Efficiency: N/A
Efficacy: 115.0 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

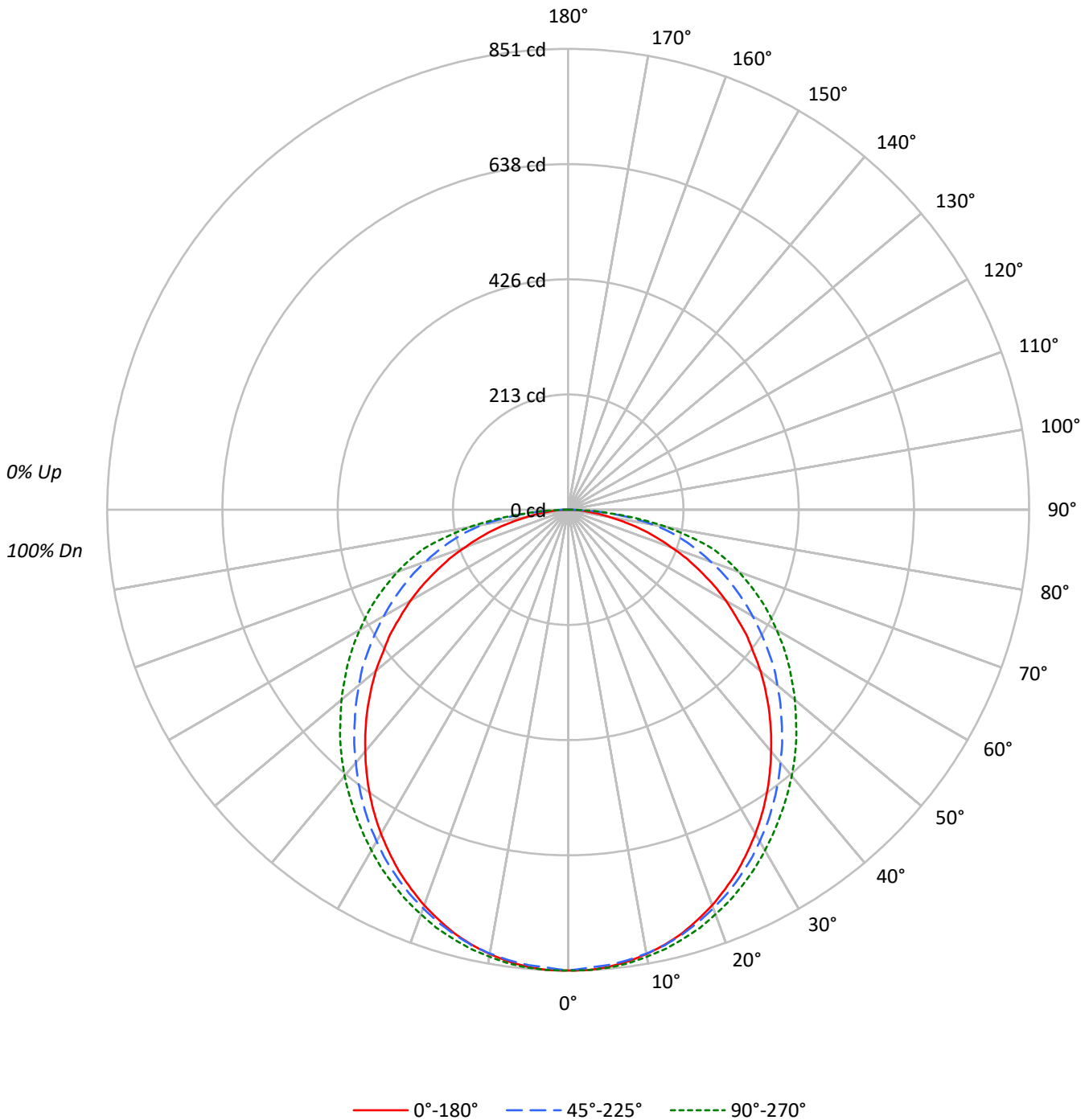
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1145	1145	1145
5°	1145	1140	1147
10°	1138	1137	1145
15°	1129	1131	1143
20°	1113	1121	1138
25°	1095	1111	1134
30°	1074	1099	1129
35°	1050	1085	1125
40°	1024	1071	1128
45°	998	1061	1133
50°	970	1055	1144
55°	940	1053	1165
60°	904	1058	1195
65°	856	1074	1247
70°	795	1102	1317
75°	726	1157	1429
80°	597	1245	1429
85°	457	1149	1227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.2
10°-20°	229.7	9.1
20°-30°	345.7	13.6
30°-40°	414.3	16.3
40°-50°	431.8	17.0
50°-60°	401.7	15.9
60°-70°	330.9	13.1
70°-80°	225.3	8.9
80°-90°	74.4	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°	656.0	25.9
0°-40°	1070.3	42.2
0°-60°	1903.8	75.1
0°-90°	2534.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2534.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	848	848	844	848	849	80
15°	810	811	812	820	820	228
25°	738	741	748	761	764	340
35°	639	647	661	678	685	400
45°	524	535	557	585	596	404
55°	401	414	449	485	496	357
65°	269	292	338	377	392	267
75°	140	171	222	262	275	147
85°	30	58	74	80	80	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	850.9	850.9	850.9	850.9	850.9
2.5°	850.9	850.9	846.7	850.9	850.9
5°	847.5	847.5	844.1	848.4	849.2
7.5°	841.6	842.4	839.1	844.1	845.0
10°	833.1	834.0	832.3	837.4	838.2
12.5°	823.0	823.8	823.8	829.7	830.6
15°	810.3	811.1	812.0	819.6	820.4
17.5°	794.2	796.8	798.5	807.8	809.4
20°	777.3	779.8	783.2	793.4	795.1
22.5°	757.9	761.2	767.2	778.2	780.7
25°	737.6	740.9	748.5	761.2	763.8
27.5°	714.7	719.8	729.1	742.6	746.0
30°	691.0	696.1	707.1	721.5	726.6
32.5°	665.7	672.4	685.1	701.2	706.3
35°	639.4	647.1	660.6	678.3	685.1
37.5°	611.5	620.0	636.1	655.5	664.0
40°	582.8	592.9	609.8	632.7	642.0
42.5°	554.0	563.3	584.5	609.0	619.1
45°	524.4	535.4	557.4	585.3	595.5
47.5°	494.0	505.0	531.2	560.8	570.1
50°	463.5	474.5	504.1	535.4	546.4
52.5°	430.5	444.9	478.7	510.0	521.0
55°	400.9	414.5	449.1	484.7	496.5
57.5°	367.1	383.2	421.2	458.4	471.1
60°	335.8	352.7	393.3	431.4	444.1
62.5°	303.6	322.3	365.4	404.3	418.7
65°	269.0	291.8	337.5	377.2	391.6
67.5°	237.7	261.4	309.6	350.2	362.9
70°	202.2	230.9	280.0	320.6	334.9
72.5°	171.7	200.5	252.1	291.8	306.2
75°	139.6	170.9	222.5	262.2	274.9
77.5°	107.4	142.1	193.7	224.1	228.4
80°	77.0	113.3	160.7	178.5	184.4
82.5°	54.1	87.1	118.4	130.3	133.6
85°	29.6	57.5	74.4	79.5	79.5
87.5°	12.7	24.5	29.6	30.4	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)