

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: P276278

Luminaire Tested: **24CZ2-35-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276278
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2878.7 lumens
Efficiency: N/A
Efficacy: 110.2 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

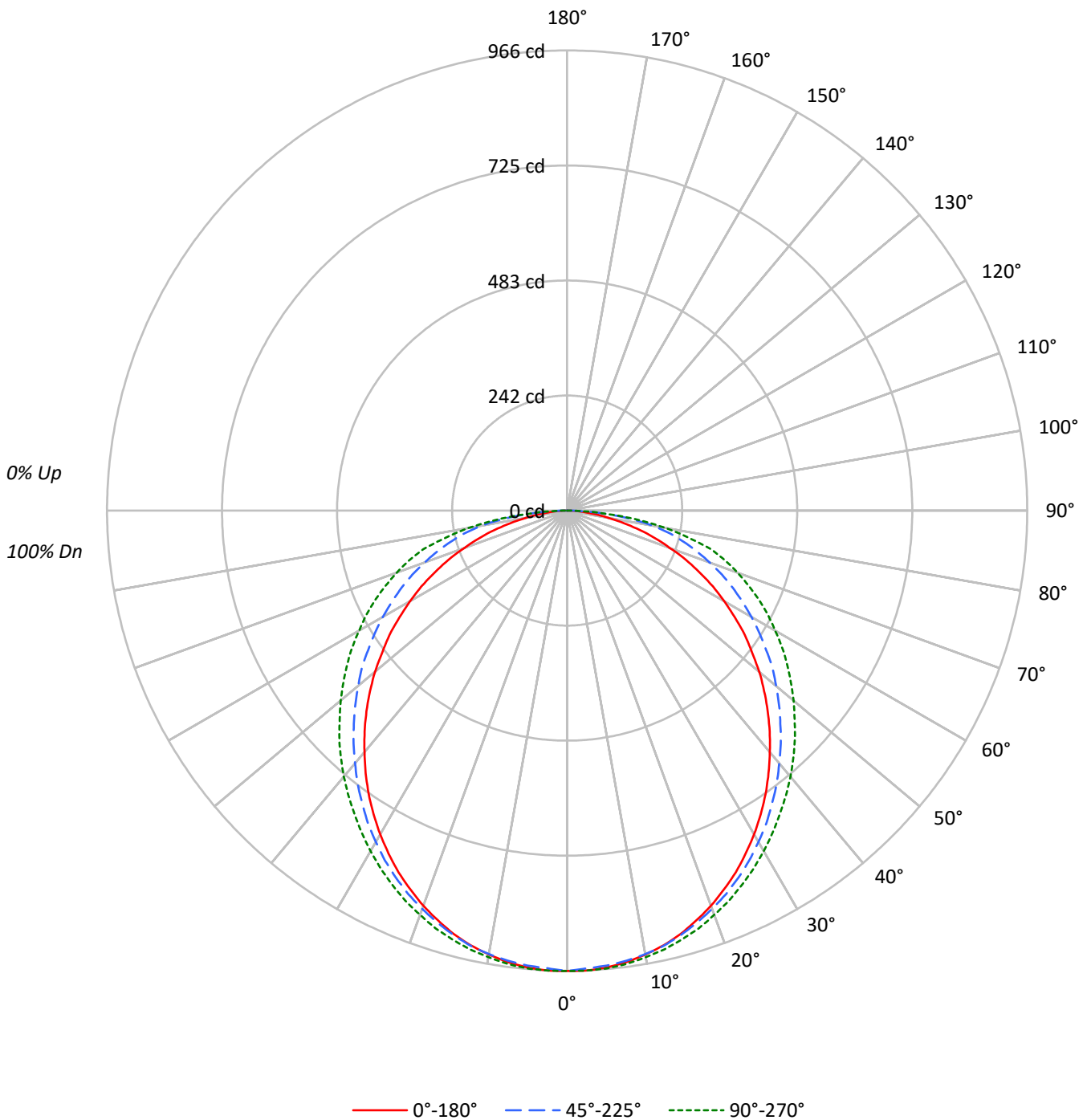
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1300	1300	1300
5°	1300	1295	1303
10°	1293	1292	1301
15°	1282	1285	1298
20°	1264	1274	1293
25°	1244	1262	1288
30°	1219	1248	1282
35°	1193	1232	1278
40°	1163	1217	1281
45°	1134	1205	1287
50°	1102	1199	1299
55°	1068	1197	1323
60°	1026	1202	1357
65°	973	1220	1416
70°	903	1251	1497
75°	824	1314	1623
80°	677	1414	1623
85°	519	1304	1394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.4	3.2
10°-20°	261.0	9.1
20°-30°	392.7	13.6
30°-40°	470.6	16.3
40°-50°	490.4	17.0
50°-60°	456.3	15.9
60°-70°	375.8	13.1
70°-80°	255.9	8.9
80°-90°	84.5	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°	745.1	25.9
0°-40°	1215.7	42.2
0°-60°	2162.4	75.1
0°-90°	2878.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	963	963	959	964	965	91
15°	920	921	922	931	932	259
25°	838	842	850	865	868	386
35°	726	735	750	770	778	454
45°	596	608	633	665	676	459
55°	455	471	510	550	564	406
65°	306	332	383	428	445	303
75°	158	194	253	298	312	167
85°	34	65	84	90	90	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.5	966.5	966.5	966.5	966.5
2.5°	966.5	966.5	961.7	966.5	966.5
5°	962.7	962.7	958.8	963.6	964.6
7.5°	955.9	956.9	953.1	958.8	959.8
10°	946.3	947.3	945.4	951.1	952.1
12.5°	934.8	935.8	935.8	942.5	943.4
15°	920.4	921.4	922.3	931.0	931.9
17.5°	902.1	905.0	906.9	917.5	919.4
20°	882.9	885.8	889.6	901.2	903.1
22.5°	860.8	864.7	871.4	883.9	886.8
25°	837.8	841.6	850.3	864.7	867.5
27.5°	811.8	817.6	828.2	843.5	847.4
30°	784.9	790.7	803.2	819.5	825.3
32.5°	756.1	763.8	778.2	796.5	802.2
35°	726.3	735.0	750.3	770.5	778.2
37.5°	694.6	704.2	722.5	744.6	754.2
40°	662.0	673.5	692.7	718.6	729.2
42.5°	629.3	639.9	663.9	691.7	703.3
45°	595.7	608.1	633.1	664.8	676.4
47.5°	561.1	573.6	603.3	637.0	647.5
50°	526.5	539.0	572.6	608.1	620.6
52.5°	489.0	505.4	543.8	579.3	591.8
55°	455.4	470.8	510.2	550.5	564.0
57.5°	417.0	435.2	478.4	520.7	535.1
60°	381.4	400.6	446.7	490.0	504.4
62.5°	344.9	366.0	415.0	459.2	475.6
65°	305.5	331.5	383.3	428.5	444.8
67.5°	270.0	296.9	351.6	397.7	412.2
70°	229.6	262.3	318.0	364.1	380.5
72.5°	195.0	227.7	286.3	331.5	347.8
75°	158.5	194.1	252.7	297.8	312.2
77.5°	122.0	161.4	220.0	254.6	259.4
80°	87.4	128.7	182.5	202.7	209.4
82.5°	61.5	99.0	134.5	148.0	151.8
85°	33.6	65.3	84.5	90.3	90.3
87.5°	14.4	27.9	33.6	34.6	35.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)