

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: P275444

Luminaire Tested: **14CZ2-44-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 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: 3655.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

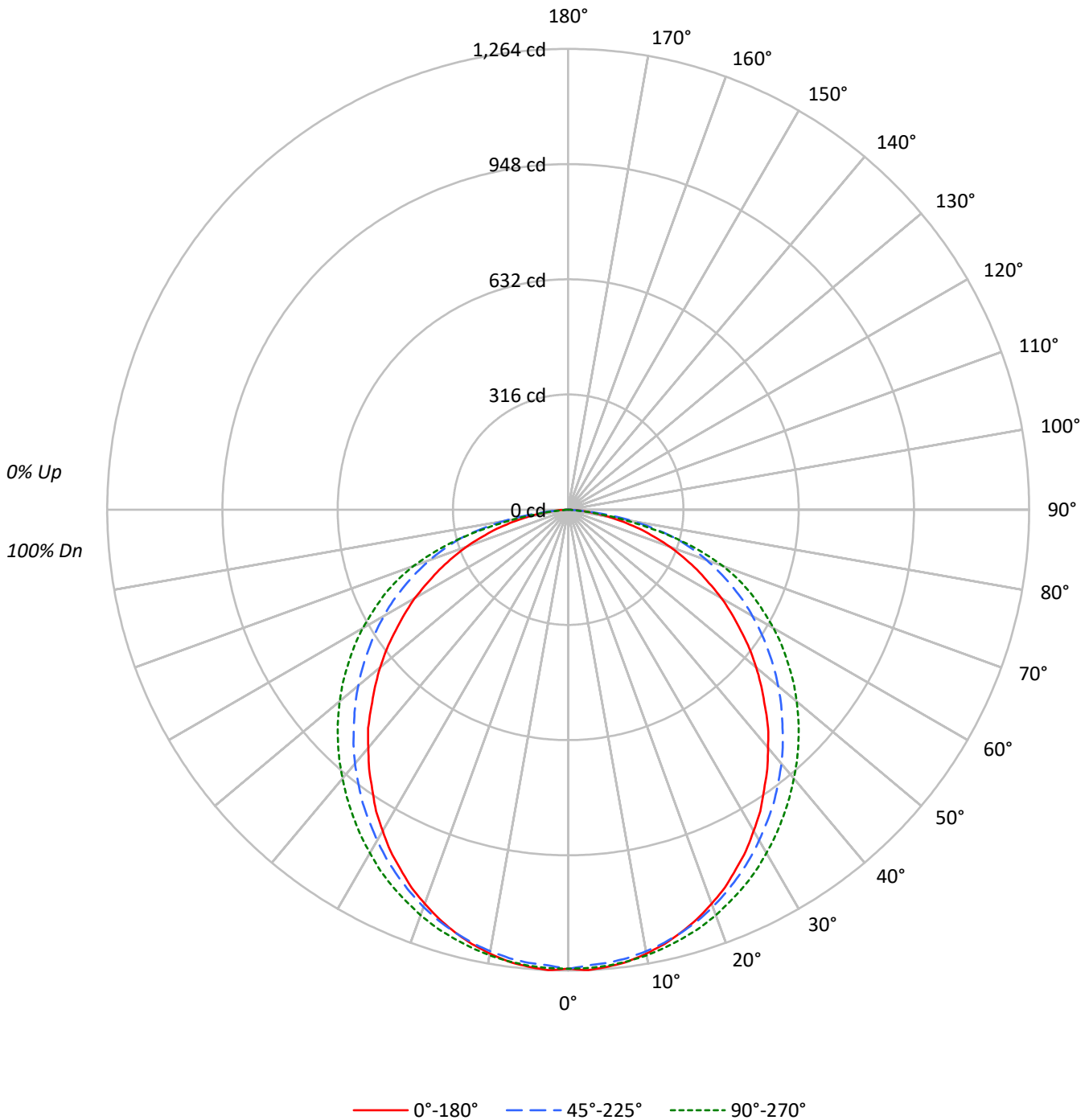
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3388	3388	3388
5°	3399	3370	3390
10°	3378	3360	3392
15°	3342	3344	3390
20°	3293	3321	3389
25°	3230	3289	3385
30°	3160	3254	3378
35°	3076	3226	3376
40°	2995	3195	3381
45°	2903	3161	3399
50°	2818	3146	3422
55°	2711	3135	3453
60°	2614	3140	3500
65°	2481	3150	3555
70°	2327	3174	3552
75°	2110	3203	3212
80°	1731	2766	2286
85°	1284	1309	528



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.1	3.3
10°-20°	340.4	9.3
20°-30°	512.7	14.0
30°-40°	615.3	16.8
40°-50°	641.3	17.5
50°-60°	593.7	16.2
60°-70°	479.7	13.1
70°-80°	292.5	8.0
80°-90°	60.4	1.7
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°	972.2	26.6
0°-40°	1587.5	43.4
0°-60°	2822.5	77.2
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1259	1259	1259	1259	1259	
5°	1258	1255	1248	1257	1255	119
15°	1200	1200	1200	1217	1217	338
25°	1088	1094	1108	1135	1140	501
35°	936	951	982	1018	1028	587
45°	763	786	830	877	893	590
55°	578	608	668	720	736	518
65°	390	428	495	544	558	385
75°	203	248	308	313	309	213
85°	42	62	42	24	17	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1259.2	1259.2	1259.2	1259.2	1259.2
2.5°	1264.0	1260.0	1251.0	1260.0	1258.3
5°	1258.3	1255.1	1247.7	1256.7	1255.1
7.5°	1250.2	1246.9	1240.4	1251.0	1249.4
10°	1236.3	1234.7	1229.8	1242.0	1241.2
12.5°	1220.0	1219.2	1216.8	1230.6	1229.8
15°	1199.7	1200.5	1200.5	1216.8	1216.8
17.5°	1176.8	1178.5	1181.7	1199.7	1202.1
20°	1150.0	1153.2	1159.7	1180.1	1183.4
22.5°	1122.2	1124.7	1134.5	1158.9	1162.2
25°	1088.0	1094.5	1107.6	1135.3	1140.2
27.5°	1055.4	1061.1	1079.0	1107.6	1115.7
30°	1017.1	1026.1	1047.3	1078.2	1087.2
32.5°	980.4	990.2	1014.7	1050.5	1058.7
35°	936.4	951.1	982.1	1017.9	1027.7
37.5°	896.5	910.3	945.4	984.5	995.9
40°	852.5	869.6	909.5	951.1	962.5
42.5°	811.7	828.0	871.2	913.6	929.1
45°	762.8	785.7	830.5	876.9	893.2
47.5°	718.0	740.8	792.2	841.9	856.6
50°	673.2	697.6	751.4	802.8	817.4
52.5°	626.7	652.8	710.7	762.0	779.1
55°	577.8	608.0	668.3	720.5	735.9
57.5°	531.4	562.3	626.7	679.7	695.2
60°	485.7	517.5	583.5	634.1	650.4
62.5°	435.2	472.7	541.2	590.9	603.1
65°	389.6	427.9	494.7	544.4	558.3
67.5°	341.5	383.0	449.9	495.5	508.6
70°	295.8	339.0	403.4	445.8	451.5
72.5°	246.9	291.0	356.2	383.0	383.0
75°	202.9	247.8	308.1	313.0	308.9
77.5°	154.8	204.6	243.7	233.9	224.1
80°	111.7	160.6	178.5	160.6	147.5
82.5°	75.0	116.5	107.6	85.6	75.8
85°	41.6	61.9	42.4	23.6	17.1
87.5°	15.5	13.9	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)