

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: P275414

Luminaire Tested: **14CZ2-44-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275414
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-L83050-W2A1-U-3500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4300.0 lumens
Efficiency: N/A
Efficacy: 120.7 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

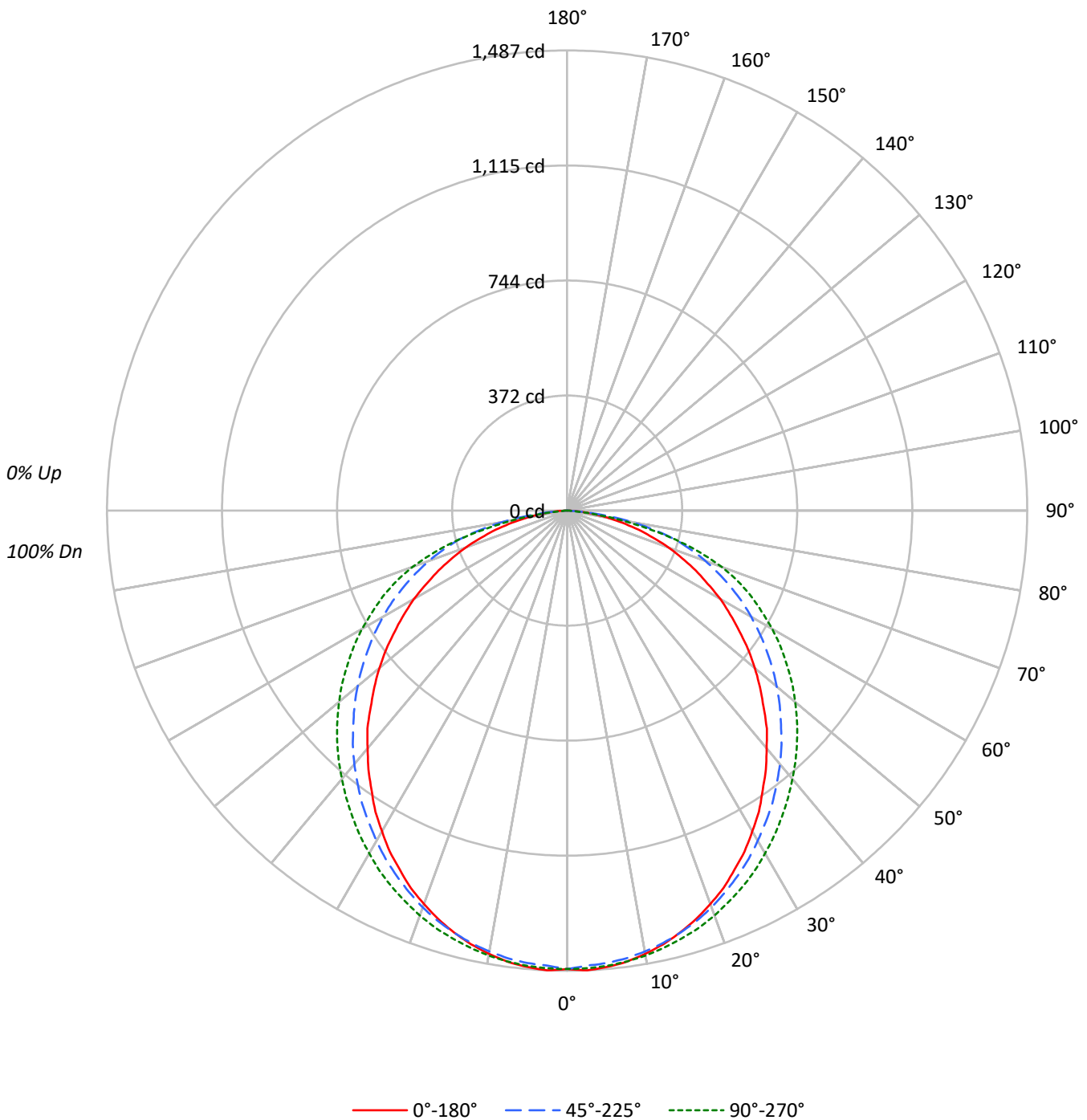
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3986	3986	3986
5°	3999	3965	3989
10°	3974	3953	3990
15°	3932	3935	3988
20°	3874	3907	3987
25°	3801	3869	3983
30°	3718	3828	3975
35°	3619	3796	3972
40°	3523	3759	3978
45°	3415	3718	3999
50°	3316	3701	4026
55°	3189	3689	4062
60°	3076	3695	4118
65°	2918	3706	4182
70°	2738	3734	4179
75°	2482	3768	3778
80°	2036	3254	2689
85°	1510	1541	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	3.3
10°-20°	400.4	9.3
20°-30°	603.2	14.0
30°-40°	723.9	16.8
40°-50°	754.5	17.5
50°-60°	698.4	16.2
60°-70°	564.3	13.1
70°-80°	344.1	8.0
80°-90°	71.0	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°	1143.8	26.6
0°-40°	1867.7	43.4
0°-60°	3320.6	77.2
0°-90°	4300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4300.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1481	1481	1481	1481	1481	
5°	1480	1477	1468	1478	1477	141
15°	1411	1412	1412	1432	1432	398
25°	1280	1288	1303	1336	1341	590
35°	1102	1119	1155	1198	1209	690
45°	897	924	977	1032	1051	694
55°	680	715	786	848	866	609
65°	458	503	582	640	657	453
75°	239	292	362	368	363	251
85°	49	73	50	28	20	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1481.4	1481.4	1481.4	1481.4	1481.4
2.5°	1487.1	1482.3	1471.8	1482.3	1480.4
5°	1480.4	1476.6	1467.9	1478.5	1476.6
7.5°	1470.8	1467.0	1459.3	1471.8	1469.9
10°	1454.5	1452.6	1446.8	1461.2	1460.3
12.5°	1435.3	1434.4	1431.5	1447.8	1446.8
15°	1411.4	1412.3	1412.3	1431.5	1431.5
17.5°	1384.5	1386.4	1390.3	1411.4	1414.2
20°	1352.9	1356.7	1364.4	1388.4	1392.2
22.5°	1320.3	1323.2	1334.7	1363.4	1367.3
25°	1280.0	1287.7	1303.0	1335.6	1341.4
27.5°	1241.7	1248.4	1269.5	1303.0	1312.6
30°	1196.6	1207.1	1232.1	1268.5	1279.1
32.5°	1153.5	1165.0	1193.7	1235.9	1245.5
35°	1101.7	1118.9	1155.4	1197.6	1209.1
37.5°	1054.7	1071.0	1112.2	1158.2	1171.7
40°	1002.9	1023.1	1070.0	1118.9	1132.4
42.5°	955.0	974.2	1025.0	1074.8	1093.0
45°	897.4	924.3	977.0	1031.7	1050.9
47.5°	844.7	871.6	932.0	990.5	1007.7
50°	792.0	820.7	884.0	944.4	961.7
52.5°	737.3	768.0	836.1	896.5	916.6
55°	679.8	715.3	786.2	847.6	865.8
57.5°	625.1	661.6	737.3	799.6	817.9
60°	571.5	608.8	686.5	746.0	765.1
62.5°	512.0	556.1	636.7	695.1	709.5
65°	458.3	503.4	582.0	640.5	656.8
67.5°	401.7	450.6	529.3	583.0	598.3
70°	348.0	398.9	474.6	524.5	531.2
72.5°	290.5	342.3	419.0	450.6	450.6
75°	238.7	291.5	362.4	368.2	363.4
77.5°	182.2	240.7	286.7	275.2	263.7
80°	131.4	188.9	210.0	188.9	173.5
82.5°	88.2	137.1	126.6	100.7	89.2
85°	48.9	72.9	49.9	27.8	20.1
87.5°	18.2	16.3	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)