

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: P275723

Luminaire Tested: **14CZ2-44-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275723
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ2-44-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4124.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

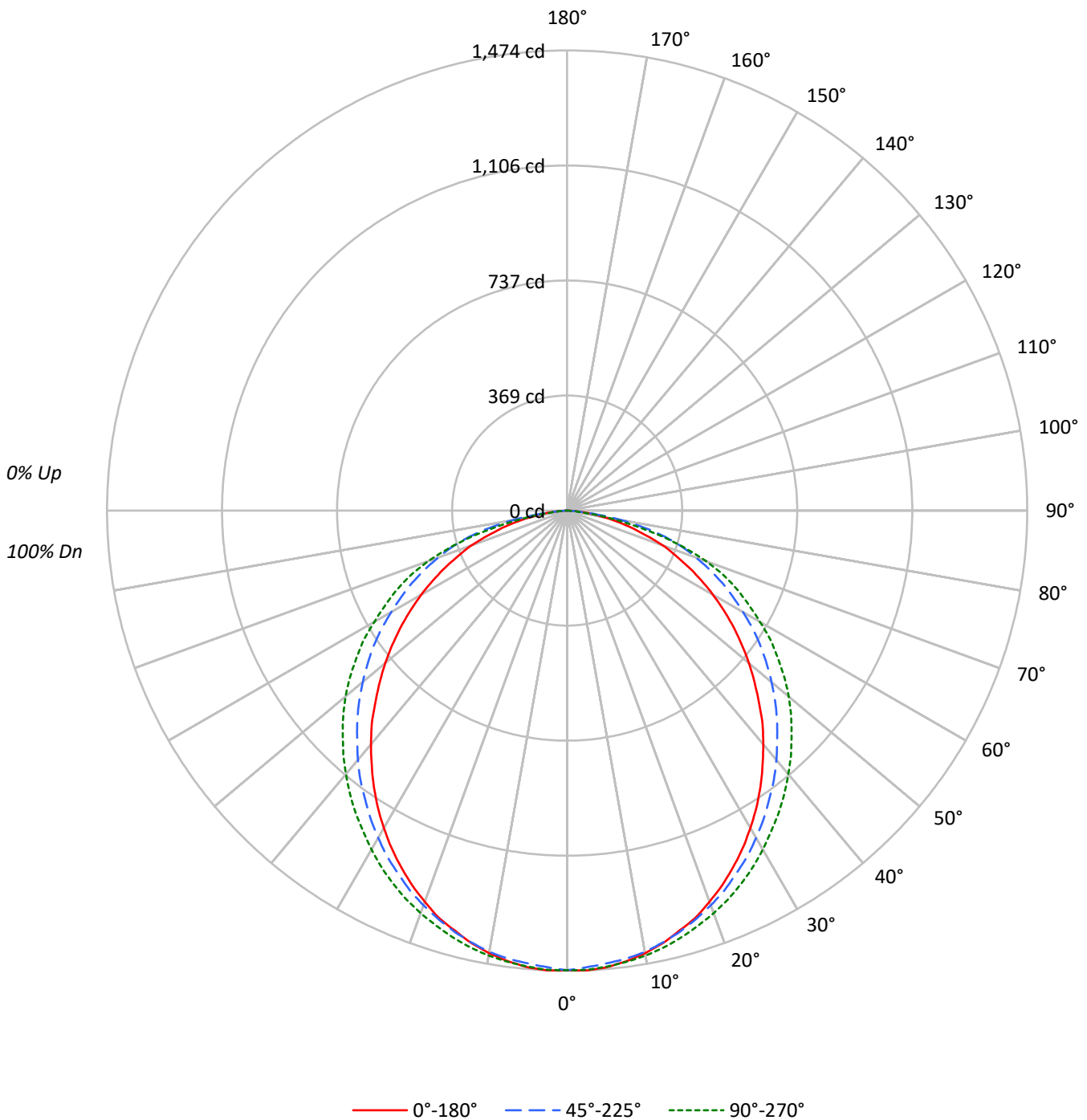
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58					58			
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50					50			
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3962	3962	3962
5°	3966	3932	3960
10°	3933	3922	3956
15°	3879	3891	3942
20°	3818	3853	3929
25°	3740	3806	3916
30°	3647	3761	3895
35°	3547	3708	3882
40°	3433	3663	3871
45°	3307	3618	3867
50°	3184	3578	3878
55°	3050	3549	3866
60°	2905	3499	3841
65°	2734	3489	3841
70°	2574	3459	3733
75°	2232	3380	3189
80°	1805	2724	2123
85°	1198	948	630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.0	3.4
10°-20°	395.6	9.6
20°-30°	593.4	14.4
30°-40°	707.9	17.2
40°-50°	731.8	17.7
50°-60°	668.1	16.2
60°-70°	525.8	12.7
70°-80°	306.1	7.4
80°-90°	56.4	1.4
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°	1128.0	27.4
0°-40°	1835.8	44.5
0°-60°	3235.8	78.5
0°-90°	4124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4124.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1472	1472	1472	1472	1472	
5°	1468	1464	1456	1468	1466	139
15°	1392	1394	1396	1415	1415	393
25°	1260	1266	1282	1313	1319	580
35°	1080	1094	1129	1172	1182	675
45°	869	898	951	1004	1016	671
55°	650	685	756	812	824	581
65°	429	474	548	591	603	426
75°	215	266	325	319	307	228
85°	39	55	31	24	20	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1472.2	1472.2	1472.2	1472.2	1472.2
2.5°	1474.2	1470.2	1464.0	1474.2	1472.2
5°	1468.1	1464.0	1455.8	1468.1	1466.1
7.5°	1455.8	1451.8	1447.7	1459.9	1457.9
10°	1439.5	1437.4	1435.4	1449.7	1447.7
12.5°	1419.0	1419.0	1417.0	1433.3	1433.3
15°	1392.5	1394.5	1396.5	1414.9	1414.9
17.5°	1367.9	1365.9	1372.0	1392.5	1394.5
20°	1333.2	1337.2	1345.4	1370.0	1372.0
22.5°	1298.4	1302.5	1316.8	1341.3	1347.5
25°	1259.5	1265.7	1282.0	1312.7	1318.8
27.5°	1218.7	1226.8	1249.3	1282.0	1288.2
30°	1173.7	1185.9	1210.5	1247.3	1253.4
32.5°	1128.7	1141.0	1171.6	1208.4	1216.6
35°	1079.6	1093.9	1128.7	1171.6	1181.8
37.5°	1028.5	1046.9	1087.8	1130.7	1143.0
40°	977.4	997.8	1042.8	1087.8	1102.1
42.5°	926.3	946.7	995.8	1046.9	1061.2
45°	869.0	897.6	950.8	1004.0	1016.2
47.5°	813.8	844.5	903.8	956.9	973.3
50°	760.6	791.3	854.7	909.9	926.3
52.5°	705.4	738.1	805.6	862.9	877.2
55°	650.2	685.0	756.5	811.8	824.0
57.5°	595.0	631.8	705.4	758.6	772.9
60°	539.8	578.7	650.2	703.4	713.6
62.5°	484.6	525.5	599.1	646.1	656.4
65°	429.4	474.4	548.0	590.9	603.2
67.5°	376.2	421.2	492.8	533.7	543.9
70°	327.2	368.0	439.6	470.3	474.4
72.5°	265.8	316.9	386.5	402.8	392.6
75°	214.7	265.8	325.1	319.0	306.7
77.5°	163.6	214.7	253.5	233.1	216.7
80°	116.5	167.7	175.8	145.2	137.0
82.5°	75.7	116.5	98.1	75.7	61.3
85°	38.8	55.2	30.7	24.5	20.4
87.5°	12.3	8.2	4.1	4.1	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)