

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: P275664

Luminaire Tested: **14CZ2-44-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275664
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-L82765-W2A1-U-4000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4337.0 lumens
Efficiency: N/A
Efficacy: 120.5 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

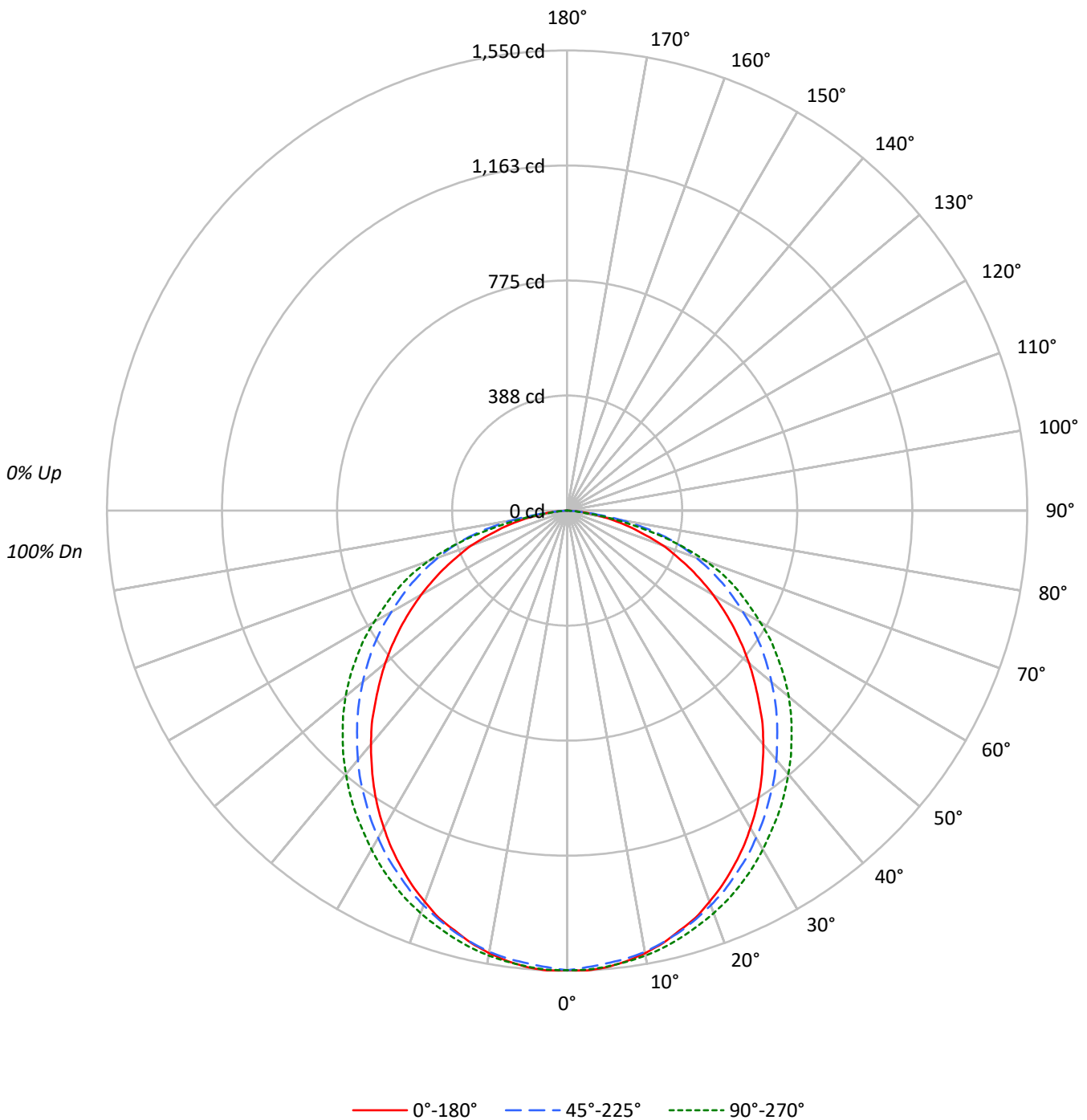
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4166	4166	4166
5°	4170	4136	4165
10°	4136	4125	4160
15°	4080	4092	4145
20°	4015	4052	4132
25°	3933	4003	4118
30°	3835	3956	4096
35°	3730	3899	4083
40°	3611	3853	4071
45°	3478	3805	4067
50°	3349	3763	4078
55°	3208	3733	4066
60°	3055	3680	4039
65°	2876	3670	4039
70°	2707	3637	3925
75°	2348	3555	3353
80°	1900	2865	2233
85°	1263	997	664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	3.4
10°-20°	416.0	9.6
20°-30°	624.1	14.4
30°-40°	744.4	17.2
40°-50°	769.6	17.7
50°-60°	702.6	16.2
60°-70°	552.9	12.7
70°-80°	321.9	7.4
80°-90°	59.3	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°	1186.3	27.4
0°-40°	1930.7	44.5
0°-60°	3402.9	78.5
0°-90°	4337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4337.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1544	1540	1531	1544	1542	146
15°	1464	1466	1469	1488	1488	413
25°	1325	1331	1348	1380	1387	610
35°	1135	1150	1187	1232	1243	710
45°	914	944	1000	1056	1069	706
55°	684	720	796	854	867	611
65°	452	499	576	621	634	448
75°	226	280	342	336	322	240
85°	41	58	32	26	22	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1548.2	1548.2	1548.2	1548.2	1548.2
2.5°	1550.4	1546.1	1539.6	1550.4	1548.2
5°	1543.9	1539.6	1531.0	1543.9	1541.8
7.5°	1531.0	1526.7	1522.4	1535.3	1533.2
10°	1513.8	1511.7	1509.5	1524.6	1522.4
12.5°	1492.3	1492.3	1490.2	1507.4	1507.4
15°	1464.4	1466.5	1468.7	1488.0	1488.0
17.5°	1438.6	1436.4	1442.9	1464.4	1466.5
20°	1402.0	1406.3	1414.9	1440.7	1442.9
22.5°	1365.5	1369.8	1384.8	1410.6	1417.1
25°	1324.6	1331.1	1348.3	1380.5	1387.0
27.5°	1281.6	1290.2	1313.9	1348.3	1354.7
30°	1234.3	1247.2	1273.0	1311.7	1318.2
32.5°	1187.0	1199.9	1232.1	1270.8	1279.4
35°	1135.4	1150.4	1187.0	1232.1	1242.9
37.5°	1081.6	1101.0	1144.0	1189.1	1202.0
40°	1027.9	1049.4	1096.7	1144.0	1159.0
42.5°	974.1	995.6	1047.2	1101.0	1116.0
45°	913.9	944.0	999.9	1055.8	1068.7
47.5°	855.8	888.1	950.4	1006.4	1023.6
50°	799.9	832.2	898.8	956.9	974.1
52.5°	741.9	776.3	847.2	907.4	922.5
55°	683.8	720.4	795.6	853.7	866.6
57.5°	625.7	664.5	741.9	797.8	812.8
60°	567.7	608.5	683.8	739.7	750.5
62.5°	509.6	552.6	630.0	679.5	690.3
65°	451.6	498.9	576.3	621.4	634.3
67.5°	395.7	443.0	518.2	561.2	572.0
70°	344.1	387.1	462.3	494.6	498.9
72.5°	279.5	333.3	406.4	423.6	412.9
75°	225.8	279.5	341.9	335.5	322.5
77.5°	172.0	225.8	266.6	245.1	227.9
80°	122.6	176.3	184.9	152.7	144.1
82.5°	79.6	122.6	103.2	79.6	64.5
85°	40.9	58.1	32.3	25.8	21.5
87.5°	12.9	8.6	4.3	4.3	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)