

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: P275501

Luminaire Tested: **14CZ2-44-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275501
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-L82765-W2A1-U-6500K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4494.0 lumens
Efficiency: N/A
Efficacy: 120.8 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

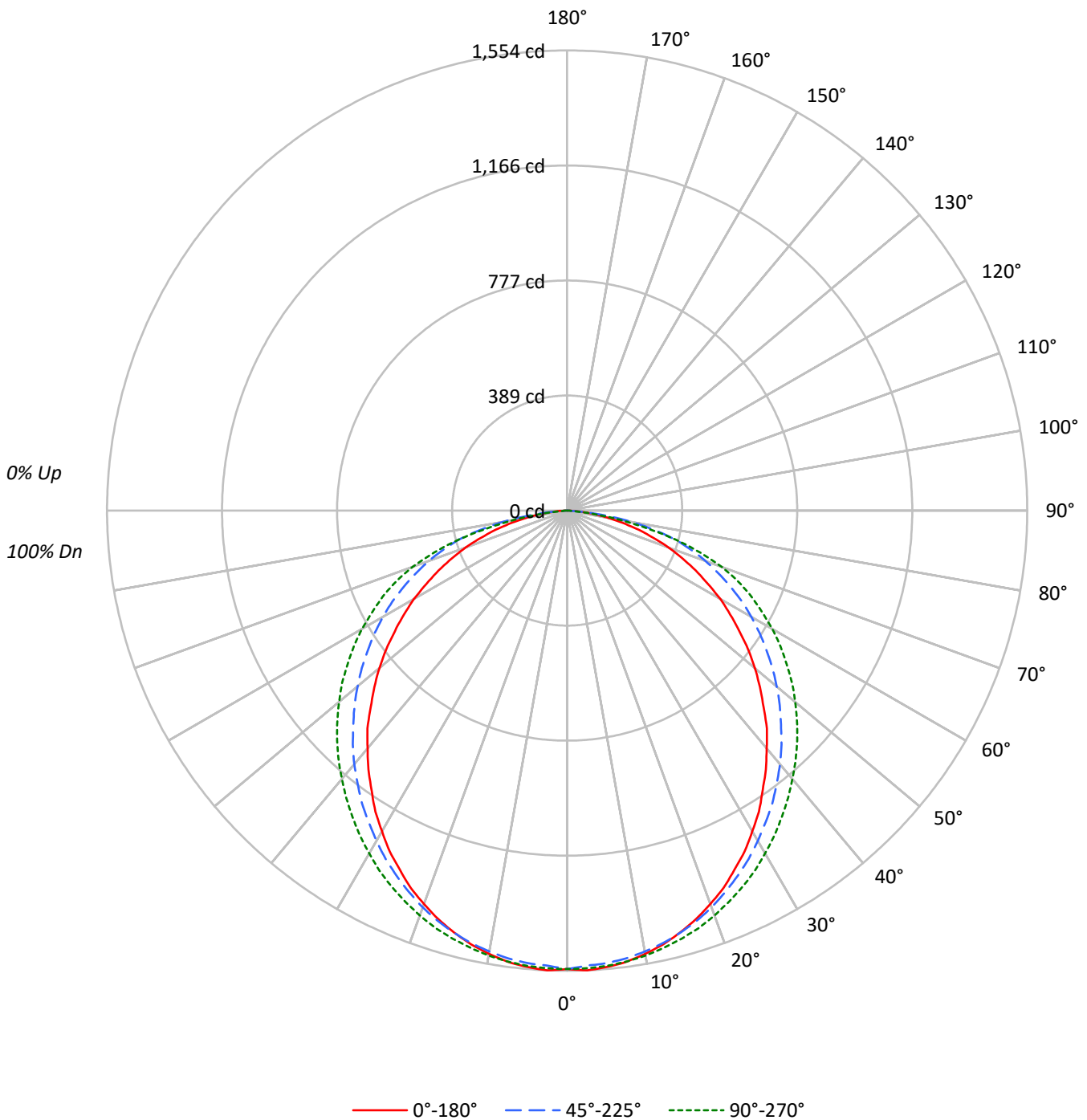
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4166	4166	4166
5°	4179	4144	4169
10°	4154	4132	4170
15°	4109	4112	4168
20°	4049	4083	4167
25°	3972	4043	4162
30°	3886	4001	4154
35°	3782	3967	4151
40°	3682	3928	4157
45°	3569	3886	4180
50°	3465	3868	4208
55°	3333	3855	4245
60°	3214	3862	4304
65°	3050	3873	4371
70°	2862	3902	4367
75°	2594	3938	3949
80°	2128	3402	2811
85°	1578	1609	648



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.5	3.3
10°-20°	418.5	9.3
20°-30°	630.4	14.0
30°-40°	756.5	16.8
40°-50°	788.5	17.5
50°-60°	730.0	16.2
60°-70°	589.8	13.1
70°-80°	359.6	8.0
80°-90°	74.2	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°	1195.4	26.6
0°-40°	1951.9	43.4
0°-60°	3470.4	77.2
0°-90°	4494.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1548	1548	1548	1548	1548	
5°	1547	1543	1534	1545	1543	147
15°	1475	1476	1476	1496	1496	416
25°	1338	1346	1362	1396	1402	617
35°	1151	1169	1208	1252	1264	721
45°	938	966	1021	1078	1098	725
55°	710	748	822	886	905	637
65°	479	526	608	669	686	474
75°	250	305	379	385	380	262
85°	51	76	52	29	21	63
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°	1554.2	1549.2	1538.2	1549.2	1547.2
5°	1547.2	1543.2	1534.2	1545.2	1543.2
7.5°	1537.2	1533.2	1525.2	1538.2	1536.2
10°	1520.1	1518.1	1512.1	1527.2	1526.2
12.5°	1500.1	1499.1	1496.1	1513.1	1512.1
15°	1475.0	1476.0	1476.0	1496.1	1496.1
17.5°	1447.0	1449.0	1453.0	1475.0	1478.1
20°	1413.9	1417.9	1425.9	1451.0	1455.0
22.5°	1379.8	1382.9	1394.9	1424.9	1429.0
25°	1337.8	1345.8	1361.8	1395.9	1401.9
27.5°	1297.7	1304.7	1326.7	1361.8	1371.8
30°	1250.6	1261.6	1287.7	1325.7	1336.8
32.5°	1205.5	1217.5	1247.6	1291.7	1301.7
35°	1151.4	1169.4	1207.5	1251.6	1263.6
37.5°	1102.3	1119.3	1162.4	1210.5	1224.5
40°	1048.2	1069.2	1118.3	1169.4	1183.4
42.5°	998.1	1018.1	1071.2	1123.3	1142.4
45°	937.9	966.0	1021.1	1078.2	1098.3
47.5°	882.8	910.9	974.0	1035.1	1053.2
50°	827.7	857.8	923.9	987.0	1005.1
52.5°	770.6	802.7	873.8	936.9	958.0
55°	710.5	747.5	821.7	885.8	904.9
57.5°	653.3	691.4	770.6	835.7	854.8
60°	597.2	636.3	717.5	779.6	799.7
62.5°	535.1	581.2	665.4	726.5	741.5
65°	479.0	526.1	608.3	669.4	686.4
67.5°	419.9	471.0	553.1	609.3	625.3
70°	363.8	416.9	496.0	548.1	555.1
72.5°	303.6	357.7	437.9	471.0	471.0
75°	249.5	304.6	378.8	384.8	379.8
77.5°	190.4	251.5	299.6	287.6	275.6
80°	137.3	197.4	219.5	197.4	181.4
82.5°	92.2	143.3	132.3	105.2	93.2
85°	51.1	76.2	52.1	29.1	21.0
87.5°	19.0	17.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)