

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: P275615

Luminaire Tested: **14CZ2-44-S-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275615
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-L93050-W2A1-U-5000K
Description: CRUZE 2.0 1x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4058.0 lumens
Efficiency: N/A
Efficacy: 109.4 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

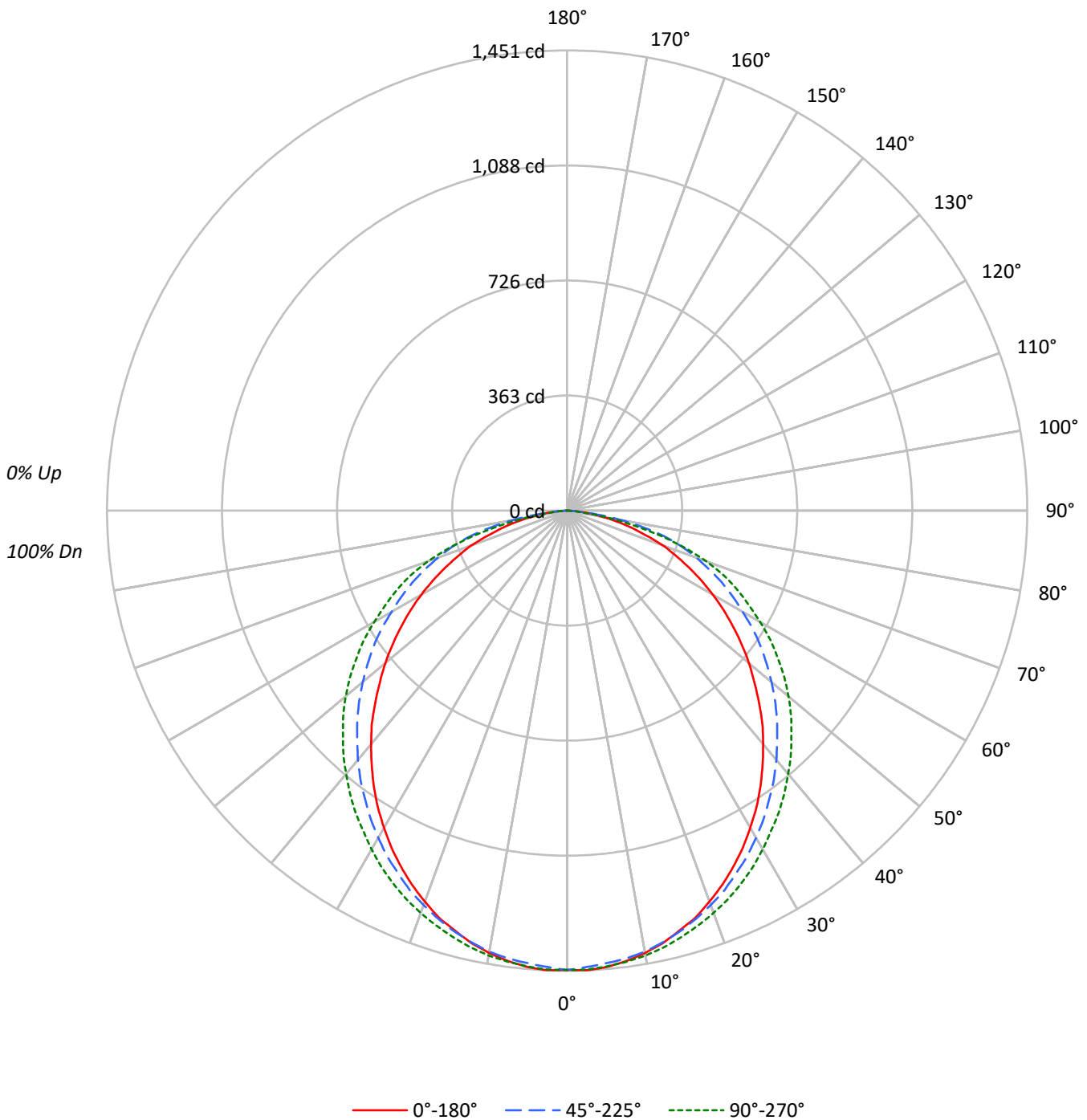
Input Watts (W): 37.107
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3898	3898	3898
5°	3902	3870	3897
10°	3870	3859	3892
15°	3817	3828	3879
20°	3757	3791	3866
25°	3680	3746	3853
30°	3589	3701	3833
35°	3490	3648	3820
40°	3378	3605	3810
45°	3254	3561	3806
50°	3134	3521	3816
55°	3002	3492	3804
60°	2859	3443	3779
65°	2690	3433	3779
70°	2533	3404	3673
75°	2197	3326	3138
80°	1777	2681	2089
85°	1179	932	621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.4
10°-20°	389.3	9.6
20°-30°	583.9	14.4
30°-40°	696.5	17.2
40°-50°	720.1	17.7
50°-60°	657.4	16.2
60°-70°	517.4	12.7
70°-80°	301.2	7.4
80°-90°	55.5	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°	1109.9	27.4
0°-40°	1806.5	44.5
0°-60°	3184.0	78.5
0°-90°	4058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1445	1441	1432	1445	1443	137
15°	1370	1372	1374	1392	1392	387
25°	1239	1245	1262	1292	1298	571
35°	1062	1076	1111	1153	1163	664
45°	855	883	936	988	1000	660
55°	640	674	744	799	811	572
65°	422	467	539	582	594	420
75°	211	262	320	314	302	225
85°	38	54	30	24	20	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1448.6	1448.6	1448.6	1448.6	1448.6
2.5°	1450.7	1446.6	1440.6	1450.7	1448.6
5°	1444.6	1440.6	1432.5	1444.6	1442.6
7.5°	1432.5	1428.5	1424.5	1436.6	1434.6
10°	1416.4	1414.4	1412.4	1426.5	1424.5
12.5°	1396.3	1396.3	1394.3	1410.4	1410.4
15°	1370.2	1372.2	1374.2	1392.3	1392.3
17.5°	1346.0	1344.0	1350.1	1370.2	1372.2
20°	1311.8	1315.8	1323.9	1348.0	1350.1
22.5°	1277.6	1281.6	1295.7	1319.9	1325.9
25°	1239.4	1245.4	1261.5	1291.7	1297.7
27.5°	1199.2	1207.2	1229.3	1261.5	1267.6
30°	1154.9	1167.0	1191.1	1227.3	1233.4
32.5°	1110.6	1122.7	1152.9	1189.1	1197.1
35°	1062.3	1076.4	1110.6	1152.9	1162.9
37.5°	1012.0	1030.1	1070.4	1112.6	1124.7
40°	961.7	981.9	1026.1	1070.4	1084.5
42.5°	911.4	931.6	979.8	1030.1	1044.2
45°	855.1	883.3	935.6	987.9	1000.0
47.5°	800.8	831.0	889.3	941.6	957.7
50°	748.5	778.6	841.0	895.3	911.4
52.5°	694.1	726.3	792.7	849.1	863.1
55°	639.8	674.0	744.4	798.8	810.8
57.5°	585.5	621.7	694.1	746.5	760.5
60°	531.2	569.4	639.8	692.1	702.2
62.5°	476.8	517.1	589.5	635.8	645.9
65°	422.5	466.8	539.2	581.5	593.5
67.5°	370.2	414.5	484.9	525.1	535.2
70°	321.9	362.2	432.6	462.8	466.8
72.5°	261.6	311.9	380.3	396.4	386.3
75°	211.3	261.6	319.9	313.9	301.8
77.5°	161.0	211.3	249.5	229.4	213.3
80°	114.7	165.0	173.0	142.9	134.8
82.5°	74.4	114.7	96.6	74.4	60.4
85°	38.2	54.3	30.2	24.1	20.1
87.5°	12.1	8.0	4.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)