

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: P#

Luminaire Tested: **14CZ-LD5-44-S-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35608)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-44-S-UNV-L830-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4221.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

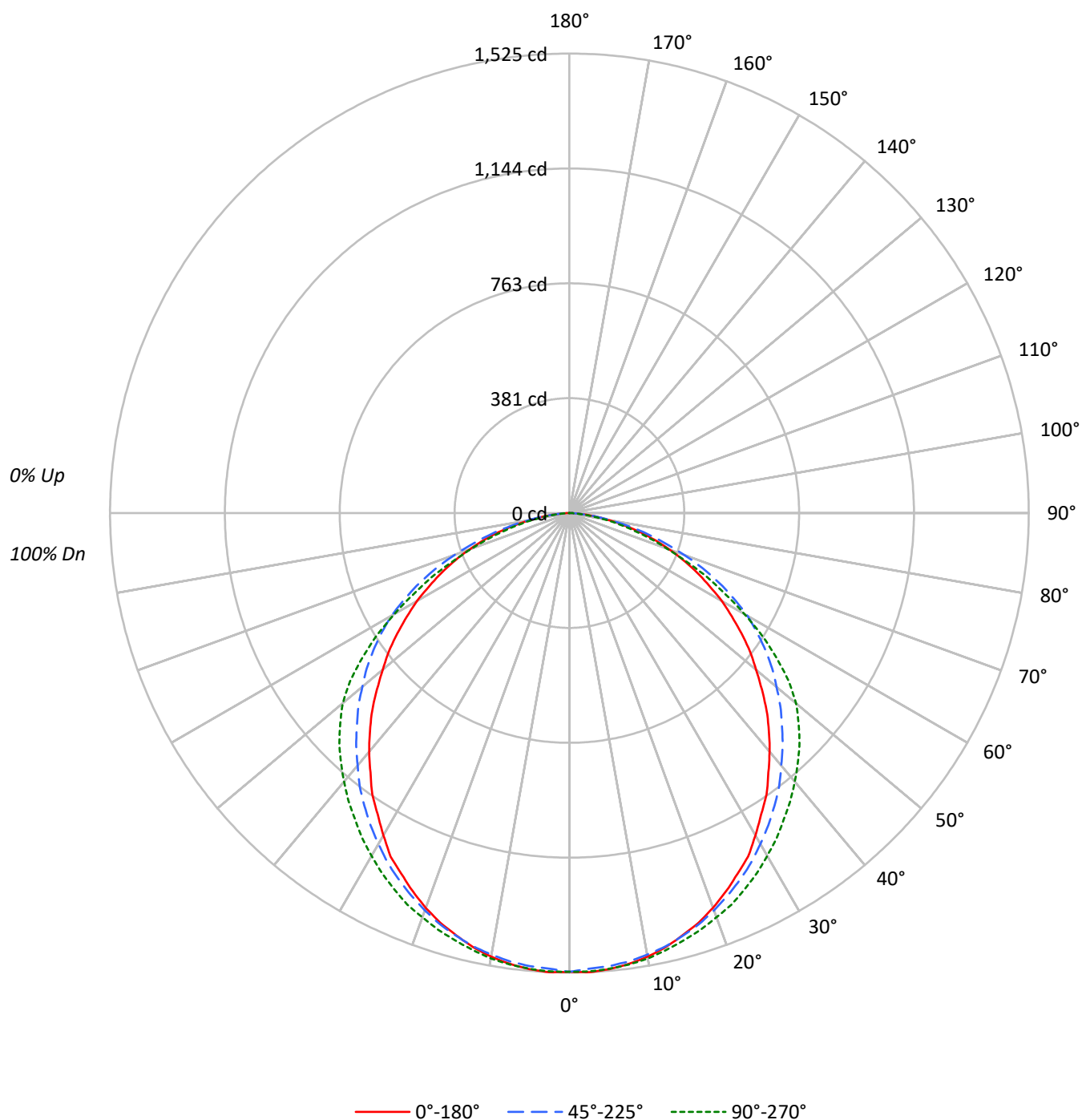
Input Watts (W): 41.12
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	109	104	100	96	106	102	98	95		98	95	92		94	91	89		90	88	86
2	99	91	84	79	97	89	83	78		86	80	76		82	78	74		79	76	73
3	90	80	72	66	88	78	71	65		75	69	64		73	67	63		70	66	62
4	83	71	62	56	81	70	61	55		67	60	54		65	59	54		63	57	53
5	76	63	54	48	74	62	54	48		60	53	47		58	52	46		56	51	46
6	70	57	48	42	68	56	48	42		54	47	41		53	46	41		51	45	40
7	65	52	43	37	63	51	43	37		49	42	36		48	41	36		47	40	36
8	61	47	39	33	59	46	38	33		45	38	33		44	37	32		43	37	32
9	57	43	35	30	55	43	35	29		42	34	29		40	34	29		39	33	29
10	53	40	32	27	52	39	32	27		38	31	27		37	31	26		37	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4097	4097	4097
5°	4095	4046	4066
10°	4068	4004	4031
15°	4015	3953	3983
20°	3957	3893	3945
25°	3876	3826	3906
30°	3782	3749	3859
35°	3683	3670	3809
40°	3557	3576	3772
45°	3437	3487	3737
50°	3287	3399	3674
55°	3160	3310	3448
60°	3015	3186	3080
65°	2825	2940	2646
70°	2601	2556	2131
75°	2295	2084	1659
80°	1767	1448	1109
85°	1117	620	422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.0	3.4
10°-20°	411.5	9.7
20°-30°	620.8	14.7
30°-40°	744.4	17.6
40°-50°	772.5	18.3
50°-60°	697.4	16.5
60°-70°	507.9	12.0
70°-80°	266.4	6.3
80°-90°	57.0	1.3
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°	1176.3	27.9
0°-40°	1920.7	45.5
0°-60°	3390.6	80.3
0°-90°	4221.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4221.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1522	1522	1522	1522	1522	
5°	1519	1516	1509	1519	1518	144
15°	1451	1451	1453	1469	1468	409
25°	1320	1328	1342	1371	1377	609
35°	1141	1152	1186	1231	1241	711
45°	926	946	997	1060	1080	713
55°	698	722	794	842	840	624
65°	467	496	549	524	505	463
75°	241	276	267	230	219	254
85°	46	56	40	31	29	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1522.4	1522.4	1522.4	1522.4	1522.4
2.5°	1525.4	1521.4	1513.4	1523.4	1522.4
5°	1519.4	1516.4	1509.3	1519.4	1518.4
7.5°	1509.3	1507.3	1501.2	1512.3	1511.4
10°	1495.2	1492.2	1488.1	1500.2	1501.2
12.5°	1476.0	1475.0	1473.0	1486.1	1485.0
15°	1450.7	1450.7	1452.7	1468.9	1467.9
17.5°	1425.5	1425.5	1430.5	1448.8	1449.7
20°	1394.2	1396.2	1403.2	1425.5	1427.6
22.5°	1358.9	1360.9	1373.0	1401.2	1406.3
25°	1320.5	1327.5	1341.7	1370.9	1377.0
27.5°	1285.2	1286.2	1307.4	1339.7	1347.8
30°	1234.7	1248.9	1268.0	1305.4	1313.5
32.5°	1185.2	1199.4	1228.6	1269.0	1280.1
35°	1140.8	1151.9	1186.3	1230.6	1240.8
37.5°	1085.3	1103.4	1143.8	1190.3	1204.4
40°	1033.8	1049.9	1093.4	1145.9	1164.0
42.5°	980.3	998.4	1047.9	1104.5	1122.6
45°	925.8	945.9	997.4	1060.0	1080.2
47.5°	866.2	891.5	950.0	1013.6	1031.8
50°	808.6	834.9	897.5	964.2	982.3
52.5°	756.2	779.4	848.1	909.6	917.7
55°	697.6	721.8	794.5	842.0	840.0
57.5°	639.1	666.3	739.0	768.3	760.2
60°	584.5	609.8	682.5	688.6	671.4
62.5°	523.9	553.3	614.8	605.7	584.5
65°	467.4	495.7	549.2	523.9	504.7
67.5°	409.9	440.1	478.5	441.2	419.0
70°	353.3	389.7	403.8	363.5	345.2
72.5°	295.8	334.2	333.2	294.8	279.7
75°	241.3	275.6	266.6	230.2	219.1
77.5°	183.7	218.0	200.9	173.7	163.6
80°	130.2	162.5	140.3	119.1	112.1
82.5°	88.8	108.0	87.9	69.6	66.6
85°	46.5	55.5	40.4	31.3	29.3
87.5°	17.2	16.2	14.2	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)