

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-LD5-39-S-UNV-L840-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-LD5-39-S-UNV-L840-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.9 lumens
Efficiency: N/A
Efficacy: 115.5 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

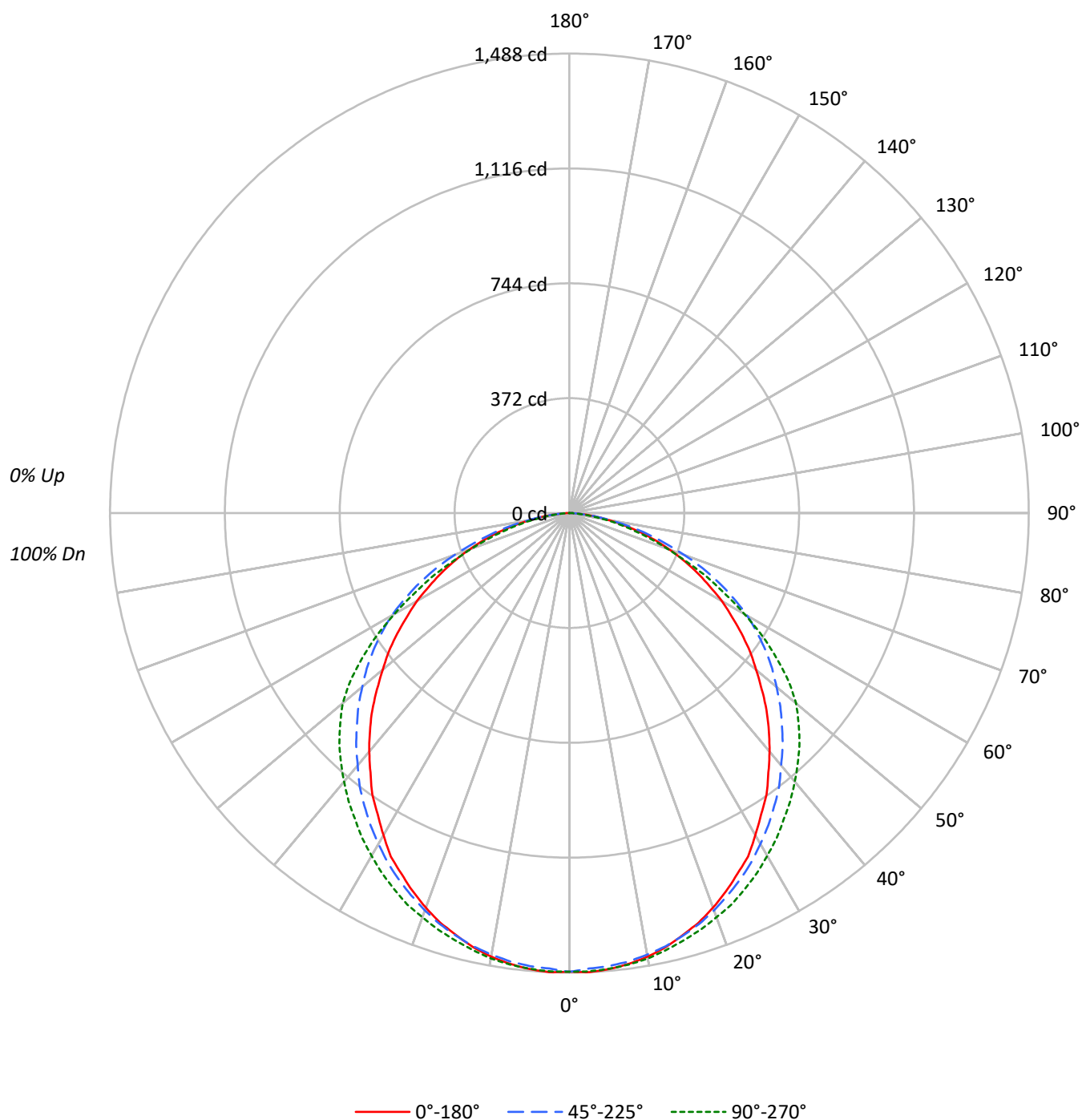
Input Watts (W): 35.67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3997	3997	3997
5°	3996	3947	3967
10°	3968	3906	3933
15°	3917	3857	3886
20°	3860	3798	3848
25°	3781	3733	3811
30°	3690	3657	3764
35°	3593	3580	3716
40°	3470	3488	3681
45°	3353	3403	3646
50°	3207	3316	3585
55°	3083	3229	3364
60°	2942	3108	3005
65°	2756	2868	2582
70°	2538	2494	2079
75°	2239	2033	1618
80°	1725	1413	1081
85°	1088	605	412



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	3.4
10°-20°	401.5	9.7
20°-30°	605.7	14.7
30°-40°	726.2	17.6
40°-50°	753.6	18.3
50°-60°	680.4	16.5
60°-70°	495.5	12.0
70°-80°	259.9	6.3
80°-90°	55.6	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°	1147.7	27.9
0°-40°	1873.9	45.5
0°-60°	3307.9	80.3
0°-90°	4118.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1485	1485	1485	1485	1485	
5°	1482	1479	1472	1482	1481	141
15°	1415	1415	1417	1433	1432	399
25°	1288	1295	1309	1338	1344	594
35°	1113	1124	1157	1201	1210	694
45°	903	923	973	1034	1054	695
55°	681	704	775	822	820	608
65°	456	484	536	511	492	451
75°	235	269	260	225	214	248
85°	45	54	39	30	29	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485.3	1485.3	1485.3	1485.3	1485.3
2.5°	1488.3	1484.3	1476.4	1486.3	1485.3
5°	1482.4	1479.4	1472.5	1482.4	1481.4
7.5°	1472.5	1470.5	1464.6	1475.5	1474.5
10°	1458.7	1455.8	1451.8	1463.6	1464.6
12.5°	1440.0	1439.0	1437.0	1449.9	1448.9
15°	1415.4	1415.4	1417.3	1433.1	1432.1
17.5°	1390.8	1390.8	1395.7	1413.4	1414.4
20°	1360.2	1362.2	1369.1	1390.8	1392.7
22.5°	1325.7	1327.7	1339.5	1367.1	1372.0
25°	1288.3	1295.2	1309.0	1337.6	1343.5
27.5°	1253.8	1254.8	1275.5	1307.0	1314.9
30°	1204.6	1218.4	1237.1	1273.5	1281.4
32.5°	1156.3	1170.1	1198.7	1238.1	1248.9
35°	1113.0	1123.8	1157.3	1200.7	1210.5
37.5°	1058.8	1076.6	1116.0	1161.3	1175.1
40°	1008.6	1024.4	1066.7	1117.9	1135.7
42.5°	956.4	974.1	1022.4	1077.5	1095.3
45°	903.2	922.9	973.1	1034.2	1053.9
47.5°	845.1	869.7	926.8	988.9	1006.6
50°	788.9	814.6	875.6	940.6	958.4
52.5°	737.7	760.4	827.4	887.4	895.3
55°	680.6	704.2	775.2	821.5	819.5
57.5°	623.5	650.1	721.0	749.6	741.7
60°	570.3	594.9	665.8	671.7	655.0
62.5°	511.2	539.8	599.8	591.0	570.3
65°	456.0	483.6	535.8	511.2	492.5
67.5°	399.9	429.4	466.9	430.4	408.8
70°	344.7	380.2	394.0	354.6	336.9
72.5°	288.6	326.0	325.0	287.6	272.8
75°	235.4	268.9	260.0	224.6	213.7
77.5°	179.3	212.8	196.0	169.4	159.6
80°	127.1	158.6	136.9	116.2	109.3
82.5°	86.7	105.4	85.7	68.0	65.0
85°	45.3	54.2	39.4	30.5	28.6
87.5°	16.7	15.8	13.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)