

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-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-LD5-44-UNV-L840-CD1-U
Description: CRUZE 1x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

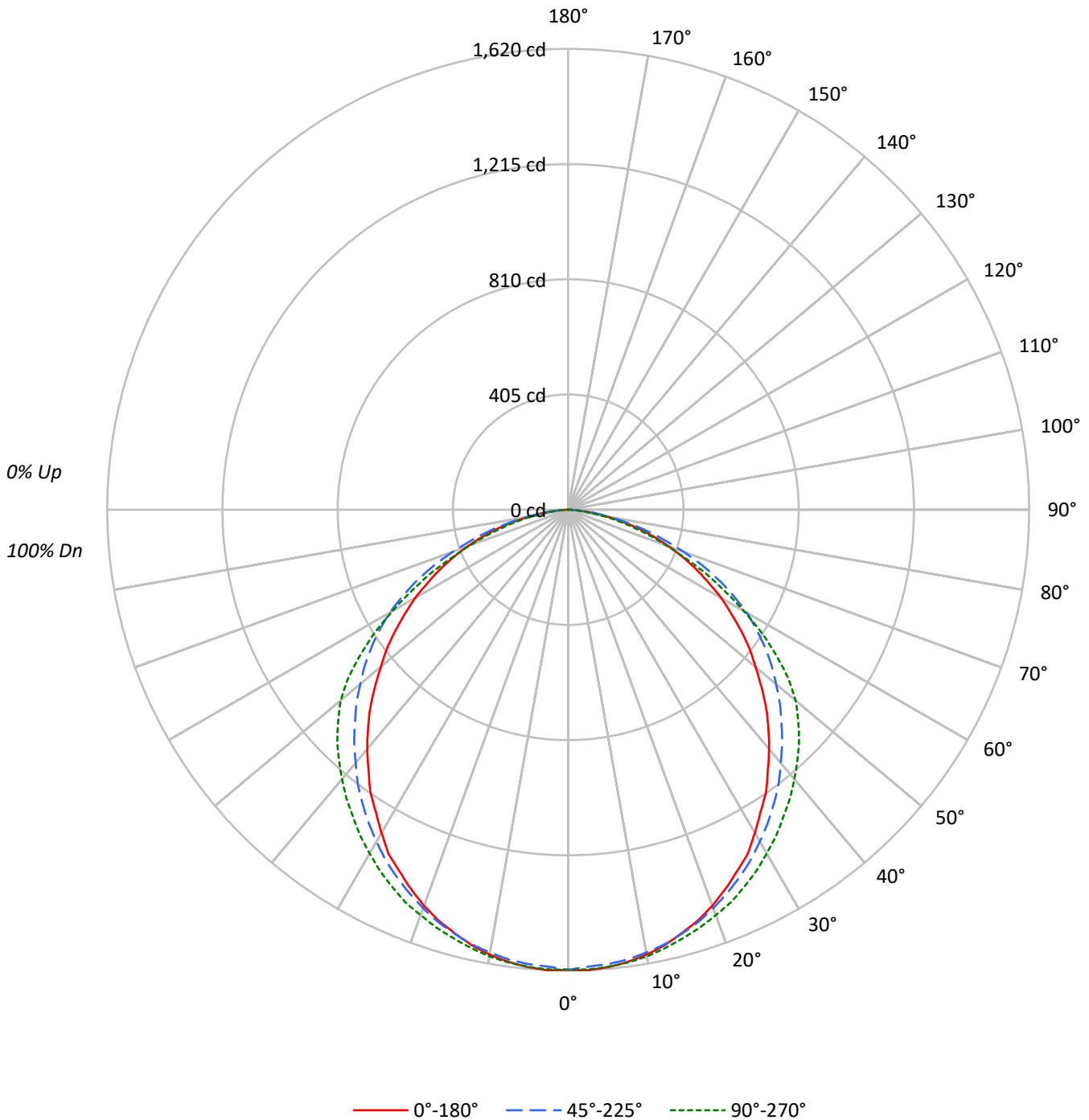
Lumens per Lamp: N/A
Luminaire Lumens: 4485.0 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 41.12
Input Voltage (V): NR
Input Current (A_{in}): 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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	66	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	29	42	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4352	4352	4352
5°	4351	4298	4319
10°	4321	4253	4282
15°	4265	4200	4231
20°	4203	4136	4190
25°	4117	4064	4150
30°	4018	3982	4099
35°	3913	3899	4047
40°	3779	3798	4008
45°	3652	3705	3970
50°	3492	3611	3903
55°	3357	3516	3663
60°	3203	3384	3272
65°	3001	3123	2811
70°	2764	2716	2264
75°	2437	2213	1762
80°	1877	1539	1177
85°	1184	659	448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.0	3.4
10°-20°	437.1	9.7
20°-30°	659.5	14.7
30°-40°	790.8	17.6
40°-50°	820.6	18.3
50°-60°	740.8	16.5
60°-70°	539.5	12.0
70°-80°	283.0	6.3
80°-90°	60.5	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°	1249.6	27.9
0°-40°	2040.4	45.5
0°-60°	3601.9	80.3
0°-90°	4485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1617	1617	1617	1617	1617	
5°	1614	1611	1603	1614	1613	153
15°	1541	1541	1543	1560	1559	435
25°	1403	1410	1425	1456	1463	647
35°	1212	1224	1260	1307	1318	756
45°	984	1005	1060	1126	1148	757
55°	741	767	844	894	892	663
65°	497	527	583	557	536	491
75°	256	293	283	244	233	270
85°	49	59	43	33	31	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.3	1617.3	1617.3	1617.3	1617.3
2.5°	1620.5	1616.2	1607.6	1618.4	1617.3
5°	1614.1	1610.9	1603.3	1614.1	1613.0
7.5°	1603.3	1601.2	1594.8	1606.6	1605.5
10°	1588.3	1585.1	1580.8	1593.7	1594.8
12.5°	1568.0	1566.9	1564.7	1578.7	1577.6
15°	1541.1	1541.1	1543.3	1560.5	1559.4
17.5°	1514.3	1514.3	1519.7	1539.0	1540.1
20°	1481.1	1483.2	1490.7	1514.3	1516.5
22.5°	1443.6	1445.7	1458.6	1488.6	1494.0
25°	1402.8	1410.3	1425.3	1456.4	1462.9
27.5°	1365.3	1366.3	1388.9	1423.2	1431.8
30°	1311.6	1326.7	1347.0	1386.7	1395.3
32.5°	1259.1	1274.1	1305.2	1348.1	1359.9
35°	1211.9	1223.7	1260.2	1307.3	1318.1
37.5°	1152.9	1172.2	1215.1	1264.4	1279.5
40°	1098.2	1115.4	1161.5	1217.3	1236.6
42.5°	1041.4	1060.7	1113.2	1173.3	1192.6
45°	983.5	1004.9	1059.6	1126.1	1147.5
47.5°	920.2	947.0	1009.2	1076.8	1096.1
50°	859.1	886.9	953.4	1024.2	1043.5
52.5°	803.3	828.0	900.9	966.3	974.9
55°	741.1	766.8	844.0	894.4	892.3
57.5°	678.9	707.8	785.1	816.2	807.6
60°	621.0	647.8	725.0	731.4	713.2
62.5°	556.6	587.7	653.1	643.5	621.0
65°	496.6	526.6	583.4	556.6	536.2
67.5°	435.4	467.6	508.4	468.7	445.1
70°	375.4	414.0	429.0	386.1	366.8
72.5°	314.2	355.0	353.9	313.2	297.1
75°	256.3	292.8	283.1	244.5	232.7
77.5°	195.2	231.7	213.4	184.5	173.7
80°	138.3	172.7	149.1	126.6	119.0
82.5°	94.4	114.8	93.3	74.0	70.8
85°	49.3	59.0	42.9	33.2	31.1
87.5°	18.2	17.2	15.0	13.9	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)