

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-LD5-35-UNV-L850-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-LD5-35-UNV-L850-CD1-U  
Description: CRUZE 1x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

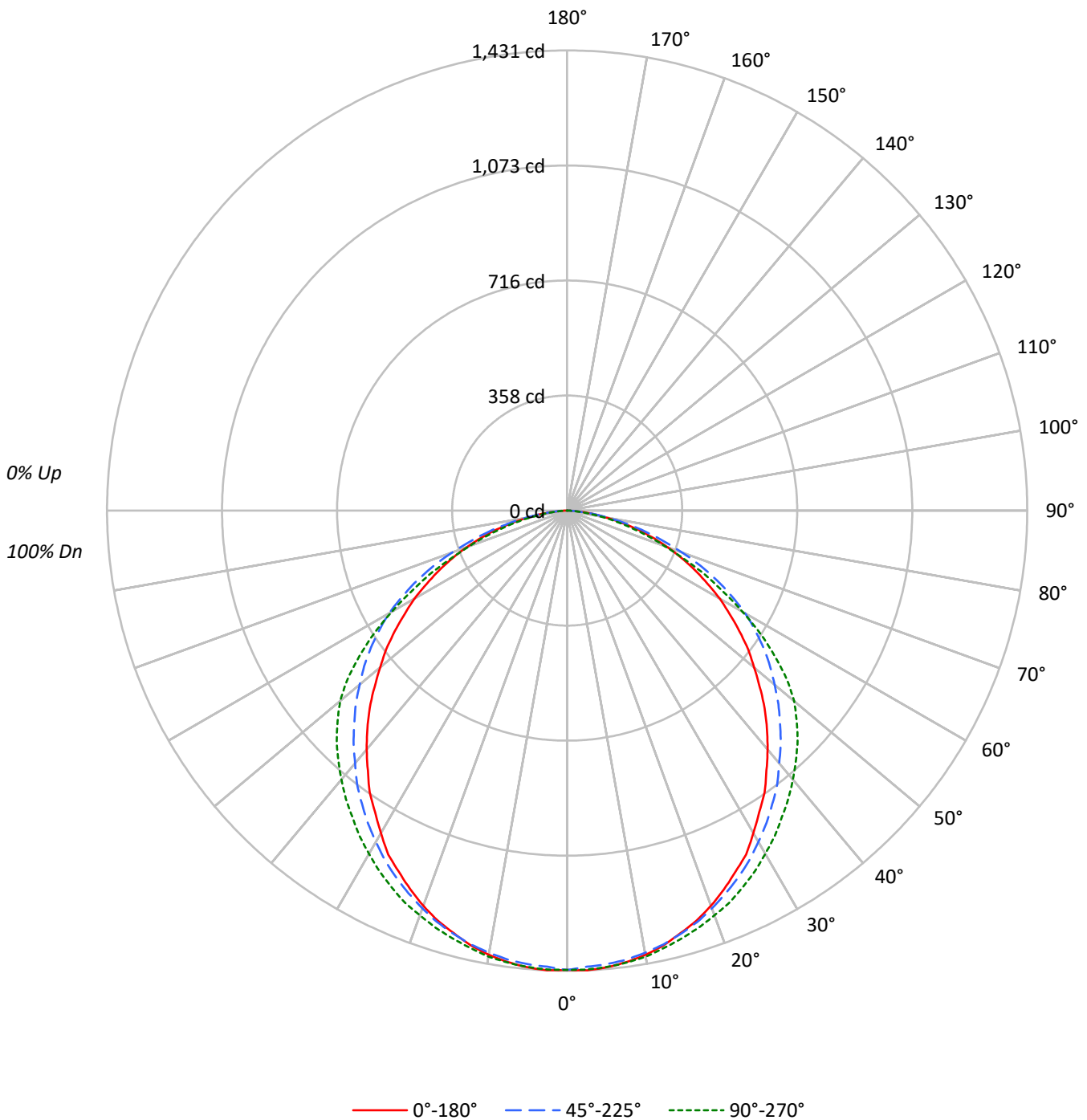
Lumens per Lamp: N/A  
Luminaire Lumens: 3961.0 lumens  
Efficiency: N/A  
Efficacy: 125.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.37  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 31.48  
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	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°	3844	3844	3844
5°	3842	3796	3815
10°	3816	3757	3782
15°	3767	3709	3737
20°	3712	3653	3701
25°	3636	3590	3665
30°	3548	3517	3620
35°	3456	3443	3574
40°	3337	3355	3539
45°	3225	3272	3506
50°	3084	3189	3447
55°	2965	3105	3235
60°	2829	2989	2890
65°	2650	2758	2483
70°	2441	2399	1999
75°	2153	1955	1556
80°	1659	1359	1039
85°	1047	582	396



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.1	3.4
10°-20°	386.1	9.7
20°-30°	582.5	14.7
30°-40°	698.4	17.6
40°-50°	724.8	18.3
50°-60°	654.3	16.5
60°-70°	476.5	12.0
70°-80°	250.0	6.3
80°-90°	53.5	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°	1103.7	27.9
0°-40°	1802.0	45.5
0°-60°	3181.1	80.3
0°-90°	3961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1426	1423	1416	1426	1425	135
15°	1361	1361	1363	1378	1377	384
25°	1239	1246	1259	1286	1292	571
35°	1070	1081	1113	1155	1164	667
45°	869	888	936	994	1014	669
55°	654	677	745	790	788	585
65°	438	465	515	492	474	434
75°	226	259	250	216	206	238
85°	44	52	38	29	28	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1428.4	1428.4	1428.4	1428.4	1428.4
2.5°	1431.2	1427.4	1419.8	1429.3	1428.4
5°	1425.5	1422.7	1416.0	1425.5	1424.6
7.5°	1416.0	1414.1	1408.5	1418.9	1417.9
10°	1402.8	1399.9	1396.2	1407.5	1408.5
12.5°	1384.8	1383.8	1381.9	1394.3	1393.3
15°	1361.1	1361.1	1363.0	1378.2	1377.2
17.5°	1337.4	1337.4	1342.2	1359.2	1360.2
20°	1308.1	1310.0	1316.6	1337.4	1339.3
22.5°	1274.9	1276.8	1288.2	1314.7	1319.4
25°	1238.9	1245.6	1258.8	1286.3	1292.0
27.5°	1205.8	1206.7	1226.6	1256.9	1264.5
30°	1158.4	1171.7	1189.7	1224.7	1232.3
32.5°	1112.0	1125.3	1152.7	1190.6	1201.0
35°	1070.3	1080.7	1112.9	1154.6	1164.1
37.5°	1018.2	1035.3	1073.2	1116.7	1130.0
40°	969.9	985.1	1025.8	1075.1	1092.1
42.5°	919.7	936.8	983.2	1036.2	1053.3
45°	868.6	887.5	935.8	994.5	1013.5
47.5°	812.7	836.4	891.3	951.0	968.0
50°	758.7	783.3	842.0	904.6	921.6
52.5°	709.4	731.2	795.6	853.4	861.0
55°	654.5	677.2	745.4	790.0	788.1
57.5°	599.6	625.1	693.3	720.8	713.2
60°	548.4	572.1	640.3	646.0	629.9
62.5°	491.6	519.1	576.8	568.3	548.4
65°	438.5	465.1	515.3	491.6	473.6
67.5°	384.6	413.0	449.0	413.9	393.1
70°	331.5	365.6	378.9	341.0	323.9
72.5°	277.5	313.5	312.6	276.6	262.4
75°	226.4	258.6	250.1	216.0	205.5
77.5°	172.4	204.6	188.5	162.9	153.4
80°	122.2	152.5	131.7	111.8	105.1
82.5°	83.4	101.3	82.4	65.4	62.5
85°	43.6	52.1	37.9	29.4	27.5
87.5°	16.1	15.2	13.3	12.3	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)