

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: **24CZ-LD5-35-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 (P25694)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-35-S-UNV-L840-CD1-U  
Description: CRUZE 2x4 LED TROFFER

Light Source: -  
Ballast/Driver: -

**Summary**

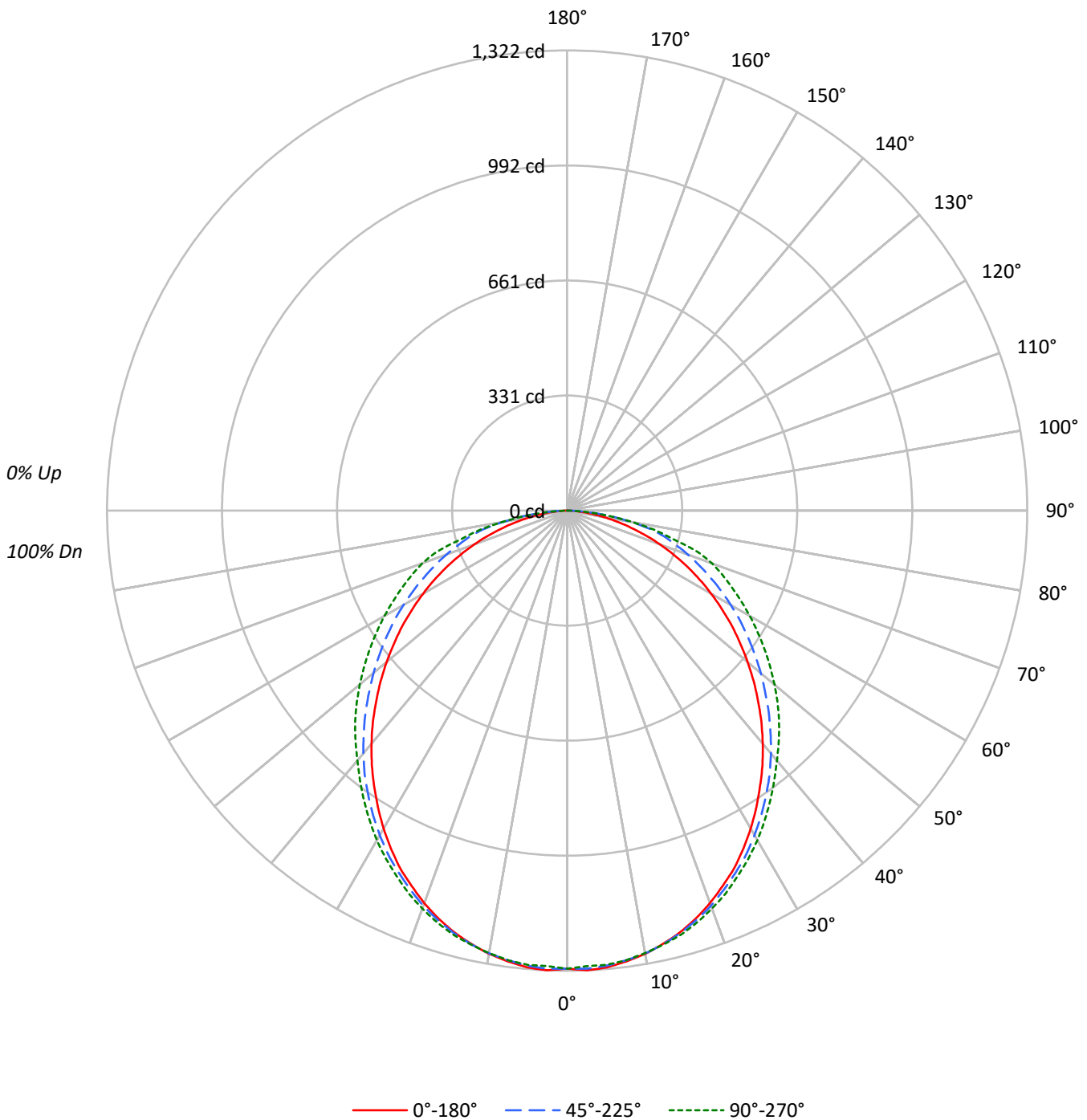
Lumens per Lamp: N/A  
Luminaire Lumens: 3635.2 lumens  
Efficiency: N/A  
Efficacy: 143.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 25.32  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	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	29	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°	1771	1771	1771
5°	1775	1764	1761
10°	1759	1749	1748
15°	1736	1726	1734
20°	1703	1697	1711
25°	1665	1661	1681
30°	1615	1623	1651
35°	1560	1579	1614
40°	1504	1532	1580
45°	1441	1480	1561
50°	1377	1429	1536
55°	1310	1382	1515
60°	1232	1339	1501
65°	1148	1297	1502
70°	1042	1267	1531
75°	903	1255	1367
80°	722	1095	1139
85°	479	709	665



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.4	3.4
10°-20°	353.9	9.7
20°-30°	527.3	14.5
30°-40°	620.8	17.1
40°-50°	630.8	17.4
50°-60°	567.2	15.6
60°-70°	448.1	12.3
70°-80°	284.3	7.8
80°-90°	78.4	2.2
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°	1005.6	27.7
0°-40°	1626.4	44.7
0°-60°	2824.4	77.7
0°-90°	3635.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3635.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1317	1306	1312	1310	1310	125
15°	1254	1248	1257	1260	1262	353
25°	1135	1133	1147	1154	1159	522
35°	966	972	997	1008	1017	605
45°	776	787	819	843	861	599
55°	578	593	634	675	692	516
65°	380	399	454	503	522	376
75°	190	223	289	314	312	202
85°	40	69	74	68	68	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1316.0	1316.0	1316.0	1316.0	1316.0
2.5°	1322.0	1312.4	1317.2	1314.8	1309.9
5°	1317.2	1306.3	1312.4	1309.9	1309.9
7.5°	1306.3	1297.9	1302.7	1301.5	1302.7
10°	1293.0	1284.5	1291.8	1291.8	1290.6
12.5°	1274.9	1267.6	1276.1	1276.1	1277.3
15°	1254.3	1248.3	1256.7	1260.4	1261.6
17.5°	1228.9	1222.9	1233.7	1237.4	1241.0
20°	1199.9	1197.5	1208.3	1212.0	1216.8
22.5°	1167.2	1167.2	1178.1	1182.9	1190.2
25°	1134.6	1133.4	1146.7	1153.9	1158.8
27.5°	1095.9	1097.1	1114.0	1121.3	1127.3
30°	1054.7	1057.1	1076.5	1085.0	1093.4
32.5°	1011.2	1016.0	1037.8	1047.5	1055.9
35°	966.4	972.5	996.7	1007.6	1017.2
37.5°	921.7	930.1	955.5	966.4	977.3
40°	874.5	881.8	910.8	924.1	937.4
42.5°	826.1	835.8	864.8	884.2	899.9
45°	776.5	787.4	818.9	843.1	861.2
47.5°	726.9	741.5	771.7	804.4	820.1
50°	677.3	691.9	725.7	762.0	777.7
52.5°	626.5	641.1	679.8	717.3	734.2
55°	578.2	592.7	633.8	674.9	691.9
57.5°	527.4	543.1	589.1	631.4	648.3
60°	477.8	493.5	543.1	587.8	606.0
62.5°	429.4	446.3	498.3	545.5	563.7
65°	379.8	399.2	453.6	503.2	522.5
67.5°	331.4	353.2	410.0	462.0	482.6
70°	283.0	308.4	368.9	422.1	442.7
72.5°	235.9	263.7	327.8	381.0	391.9
75°	189.9	222.6	289.1	314.5	312.1
77.5°	146.4	182.6	245.5	250.4	257.6
80°	106.4	146.4	183.9	193.5	188.7
82.5°	70.2	110.1	131.8	127.0	125.8
85°	39.9	68.9	73.8	67.7	67.7
87.5°	16.9	27.8	24.2	18.1	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)