

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: P230493

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L935-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P230493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-70-RDP-UNV-L935-CD1-U  
Description: CRUZE 2x4 LED TROFFER  
WITH RDP LENS  
Light Source: (168) 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4016.2 lumens  
Efficiency: N/A  
Efficacy: 62.5 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

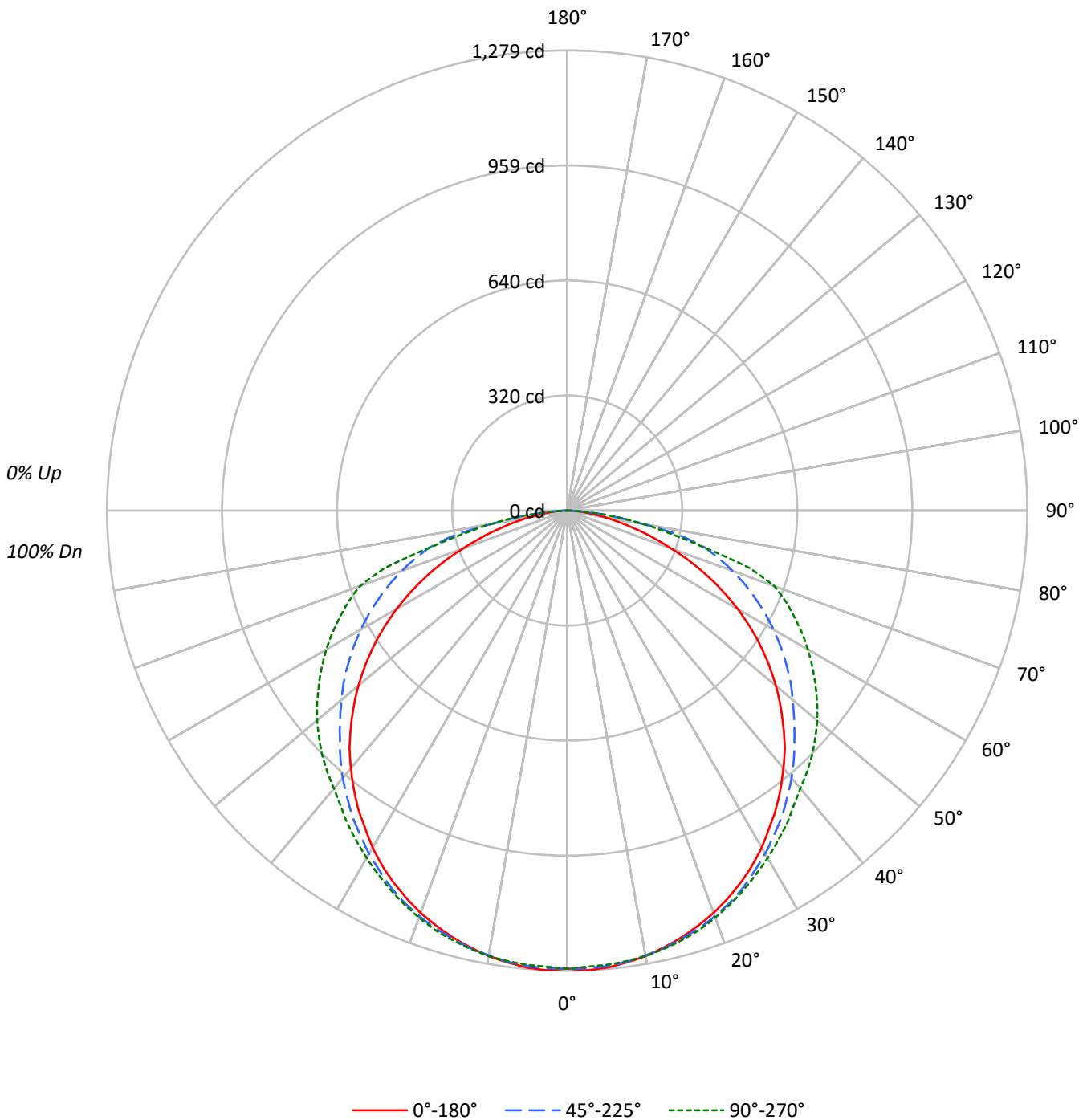
Input Watts (W): 64.22  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	108	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1713	1713	1713
5°	1722	1717	1712
10°	1718	1715	1718
15°	1710	1716	1721
20°	1704	1718	1724
25°	1693	1717	1726
30°	1680	1711	1732
35°	1663	1708	1747
40°	1642	1705	1771
45°	1618	1700	1832
50°	1585	1713	1899
55°	1540	1744	1976
60°	1474	1782	2080
65°	1372	1838	2216
70°	1213	1921	2411
75°	1017	2056	2025
80°	812	1624	1685
85°	641	1099	1007



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.8	3.0
10°-20°	347.5	8.7
20°-30°	530.8	13.2
30°-40°	649.0	16.2
40°-50°	694.7	17.3
50°-60°	666.3	16.6
60°-70°	562.6	14.0
70°-80°	359.5	9.0
80°-90°	85.0	2.1
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°	999.1	24.9
0°-40°	1648.1	41.0
0°-60°	3009.0	74.9
0°-90°	4016.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4016.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1275	1267	1271	1269	1267	121
15°	1228	1224	1232	1236	1236	347
25°	1141	1139	1156	1160	1162	526
35°	1012	1020	1040	1054	1064	633
45°	850	864	894	935	963	656
55°	656	678	743	811	842	586
65°	431	472	577	658	696	425
75°	196	279	395	403	390	211
85°	42	69	71	69	65	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1279.1	1271.2	1273.2	1273.2	1269.2
5°	1275.1	1267.2	1271.2	1269.2	1267.2
7.5°	1267.2	1261.3	1265.3	1265.3	1263.3
10°	1257.4	1251.4	1255.4	1257.4	1257.4
12.5°	1243.5	1239.6	1245.5	1245.5	1247.5
15°	1227.7	1223.7	1231.6	1235.6	1235.6
17.5°	1209.9	1207.9	1217.8	1219.8	1221.8
20°	1190.1	1188.2	1200.0	1200.0	1204.0
22.5°	1166.4	1164.4	1180.2	1180.2	1184.2
25°	1140.7	1138.7	1156.5	1160.5	1162.5
27.5°	1113.0	1111.1	1128.8	1134.8	1138.7
30°	1081.4	1081.4	1101.2	1109.1	1115.0
32.5°	1045.8	1051.7	1069.5	1081.4	1089.3
35°	1012.2	1020.1	1039.9	1053.7	1063.6
37.5°	974.6	982.6	1004.3	1022.1	1034.0
40°	935.1	945.0	970.7	990.5	1008.3
42.5°	895.6	905.5	933.1	962.8	986.5
45°	850.1	863.9	893.6	935.1	962.8
47.5°	804.6	818.5	856.0	907.4	935.1
50°	757.2	773.0	818.5	877.8	907.4
52.5°	707.8	725.5	782.9	846.1	875.8
55°	656.4	678.1	743.3	810.6	842.2
57.5°	603.0	626.7	703.8	775.0	808.6
60°	547.6	577.3	662.3	737.4	773.0
62.5°	490.3	525.9	620.8	697.9	735.4
65°	431.0	472.5	577.3	658.3	695.9
67.5°	369.7	425.0	533.8	618.8	656.4
70°	308.4	373.6	488.3	575.3	612.9
72.5°	251.1	326.2	442.8	523.9	531.8
75°	195.7	278.8	395.4	403.3	389.5
77.5°	146.3	231.3	326.2	290.6	288.6
80°	104.8	185.8	209.6	215.5	217.5
82.5°	69.2	140.4	136.4	140.4	138.4
85°	41.5	69.2	71.2	69.2	65.2
87.5°	19.8	25.7	19.8	17.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)