

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: P263537

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263537  
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-LD5-75-RDP-UNV-L83050-W2A1-U-3000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4951.0 lumens  
Efficiency: N/A  
Efficacy: 84.9 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

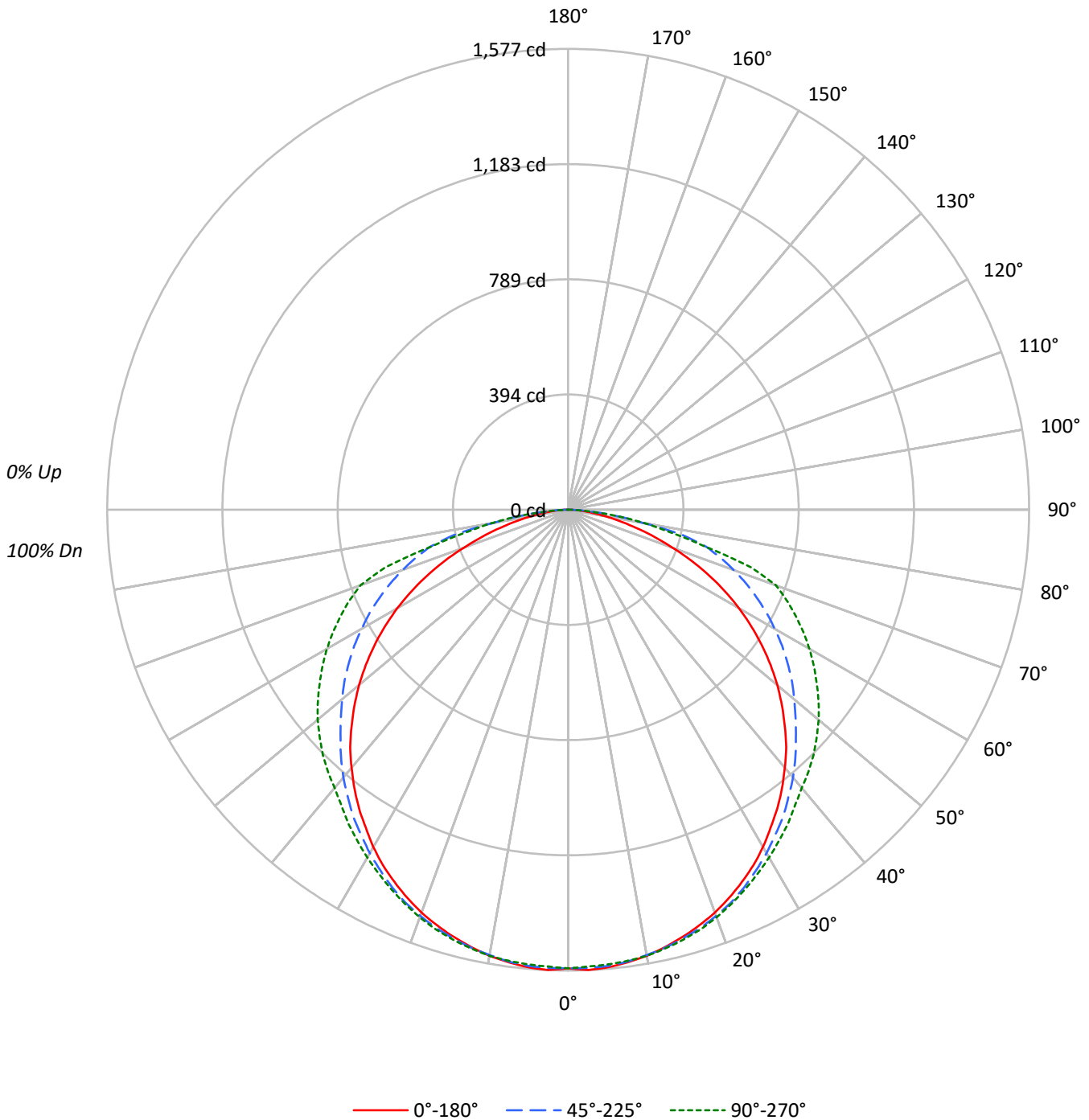
Input Watts (W): 58.287192  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	62	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°	2112	2112	2112
5°	2123	2117	2110
10°	2118	2114	2118
15°	2108	2115	2122
20°	2101	2118	2125
25°	2088	2117	2127
30°	2071	2109	2135
35°	2050	2106	2154
40°	2025	2102	2183
45°	1994	2096	2258
50°	1954	2112	2341
55°	1898	2150	2435
60°	1817	2197	2564
65°	1691	2266	2731
70°	1496	2368	2972
75°	1254	2534	2496
80°	1001	2001	2077
85°	790	1354	1241



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.9	3.0
10°-20°	428.4	8.7
20°-30°	654.4	13.2
30°-40°	800.0	16.2
40°-50°	856.3	17.3
50°-60°	821.4	16.6
60°-70°	693.5	14.0
70°-80°	443.2	9.0
80°-90°	104.8	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°	1231.7	24.9
0°-40°	2031.7	41.0
0°-60°	3709.4	74.9
0°-90°	4951.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4951.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1572	1562	1567	1565	1562	149
15°	1514	1509	1518	1523	1523	427
25°	1406	1404	1426	1431	1433	648
35°	1248	1258	1282	1299	1311	780
45°	1048	1065	1102	1153	1187	808
55°	809	836	916	999	1038	722
65°	531	582	712	812	858	524
75°	241	344	487	497	480	260
85°	51	85	88	85	80	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1569.5	1569.5	1569.5	1569.5	1569.5
2.5°	1576.8	1567.1	1569.5	1569.5	1564.6
5°	1571.9	1562.2	1567.1	1564.6	1562.2
7.5°	1562.2	1554.9	1559.8	1559.8	1557.3
10°	1550.0	1542.7	1547.6	1550.0	1550.0
12.5°	1533.0	1528.1	1535.4	1535.4	1537.8
15°	1513.5	1508.6	1518.3	1523.2	1523.2
17.5°	1491.5	1489.1	1501.3	1503.7	1506.1
20°	1467.1	1464.7	1479.3	1479.3	1484.2
22.5°	1437.9	1435.5	1455.0	1455.0	1459.8
25°	1406.2	1403.8	1425.7	1430.6	1433.0
27.5°	1372.1	1369.7	1391.6	1398.9	1403.8
30°	1333.1	1333.1	1357.5	1367.2	1374.5
32.5°	1289.2	1296.6	1318.5	1333.1	1342.9
35°	1247.8	1257.6	1281.9	1299.0	1311.2
37.5°	1201.5	1211.3	1238.1	1260.0	1274.6
40°	1152.8	1164.9	1196.6	1221.0	1242.9
42.5°	1104.0	1116.2	1150.3	1186.9	1216.1
45°	1048.0	1065.0	1101.6	1152.8	1186.9
47.5°	991.9	1009.0	1055.3	1118.6	1152.8
50°	933.4	952.9	1009.0	1082.1	1118.6
52.5°	872.5	894.4	965.1	1043.1	1079.6
55°	809.1	835.9	916.4	999.2	1038.2
57.5°	743.3	772.6	867.6	955.4	996.8
60°	675.1	711.6	816.4	909.0	952.9
62.5°	604.4	648.3	765.3	860.3	906.6
65°	531.3	582.5	711.6	811.6	857.9
67.5°	455.7	524.0	658.0	762.8	809.1
70°	380.2	460.6	602.0	709.2	755.5
72.5°	309.5	402.1	545.9	645.8	655.6
75°	241.3	343.6	487.4	497.2	480.1
77.5°	180.3	285.1	402.1	358.3	355.8
80°	129.2	229.1	258.3	265.6	268.1
82.5°	85.3	173.0	168.2	173.0	170.6
85°	51.2	85.3	87.7	85.3	80.4
87.5°	24.4	31.7	24.4	21.9	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)