

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: P263539

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263539  
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-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5501.0 lumens  
Efficiency: N/A  
Efficacy: 92.1 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

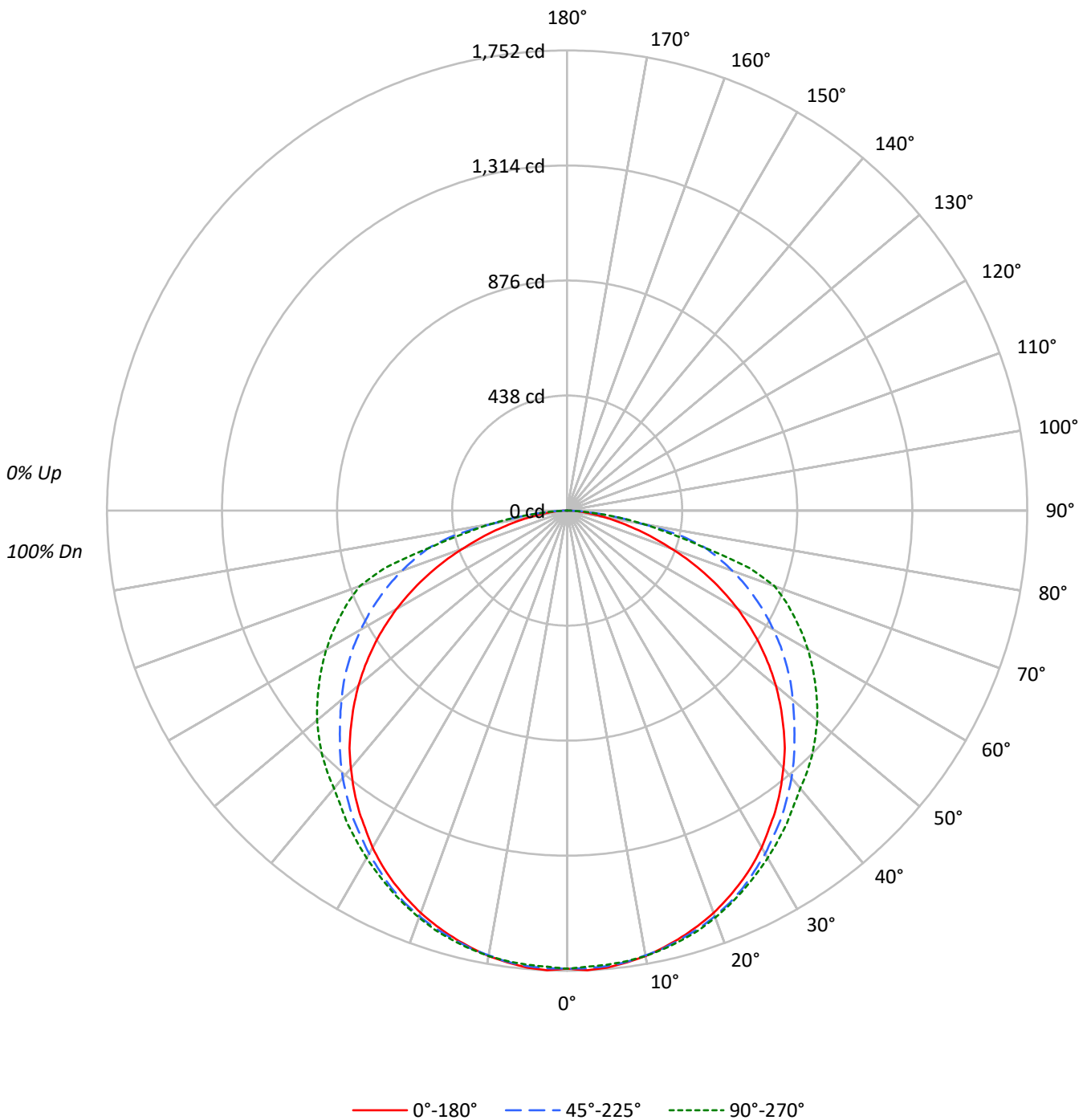
Input Watts (W): 59.747292  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2346	2346	2346
5°	2359	2352	2344
10°	2353	2349	2353
15°	2342	2350	2357
20°	2334	2354	2361
25°	2320	2352	2364
30°	2301	2343	2373
35°	2277	2339	2393
40°	2250	2335	2426
45°	2216	2329	2509
50°	2171	2347	2602
55°	2109	2388	2706
60°	2019	2441	2849
65°	1879	2517	3035
70°	1662	2631	3302
75°	1394	2816	2773
80°	1112	2224	2308
85°	878	1505	1380



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.4	3.0
10°-20°	476.0	8.7
20°-30°	727.1	13.2
30°-40°	888.9	16.2
40°-50°	951.5	17.3
50°-60°	912.6	16.6
60°-70°	770.6	14.0
70°-80°	492.5	9.0
80°-90°	116.5	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°	1368.5	24.9
0°-40°	2257.4	41.0
0°-60°	4121.5	74.9
0°-90°	5501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5501.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1744	1744	1744	1744	1744	
5°	1747	1736	1741	1738	1736	166
15°	1682	1676	1687	1692	1692	475
25°	1562	1560	1584	1590	1592	720
35°	1386	1397	1424	1443	1457	867
45°	1164	1183	1224	1281	1319	898
55°	899	929	1018	1110	1154	802
65°	590	647	791	902	953	582
75°	268	382	542	552	533	289
85°	57	95	98	95	89	68
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1743.9	1743.9	1743.9	1743.9	1743.9
2.5°	1752.0	1741.2	1743.9	1743.9	1738.4
5°	1746.6	1735.7	1741.2	1738.4	1735.7
7.5°	1735.7	1727.6	1733.0	1733.0	1730.3
10°	1722.2	1714.1	1719.5	1722.2	1722.2
12.5°	1703.2	1697.8	1706.0	1706.0	1708.7
15°	1681.6	1676.2	1687.0	1692.4	1692.4
17.5°	1657.2	1654.5	1668.0	1670.8	1673.5
20°	1630.1	1627.4	1643.7	1643.7	1649.1
22.5°	1597.6	1594.9	1616.6	1616.6	1622.0
25°	1562.4	1559.7	1584.1	1589.5	1592.2
27.5°	1524.5	1521.8	1546.2	1554.3	1559.7
30°	1481.2	1481.2	1508.3	1519.1	1527.2
32.5°	1432.5	1440.6	1465.0	1481.2	1492.0
35°	1386.4	1397.3	1424.3	1443.3	1456.8
37.5°	1335.0	1345.8	1375.6	1400.0	1416.2
40°	1280.8	1294.4	1329.6	1356.6	1381.0
42.5°	1226.7	1240.2	1278.1	1318.7	1351.2
45°	1164.4	1183.3	1224.0	1280.8	1318.7
47.5°	1102.1	1121.1	1172.5	1242.9	1280.8
50°	1037.1	1058.8	1121.1	1202.3	1242.9
52.5°	969.4	993.8	1072.3	1159.0	1199.6
55°	899.0	928.8	1018.2	1110.2	1153.5
57.5°	825.9	858.4	964.0	1061.5	1107.5
60°	750.1	790.7	907.1	1010.0	1058.8
62.5°	671.5	720.3	850.3	955.9	1007.3
65°	590.3	647.2	790.7	901.7	953.2
67.5°	506.4	582.2	731.1	847.6	899.0
70°	422.4	511.8	668.8	788.0	839.4
72.5°	343.9	446.8	606.6	717.6	728.4
75°	268.1	381.8	541.6	652.4	673.4
77.5°	200.4	316.8	466.8	588.1	608.3
80°	143.5	254.5	387.0	525.2	553.9
82.5°	94.8	192.3	306.8	462.3	489.6
85°	56.9	94.8	197.5	394.8	419.4
87.5°	27.1	35.2	127.1	294.4	319.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)