

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: P263722

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263722  
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-L82765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RDP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5122.0 lumens  
Efficiency: N/A  
Efficacy: 91.3 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

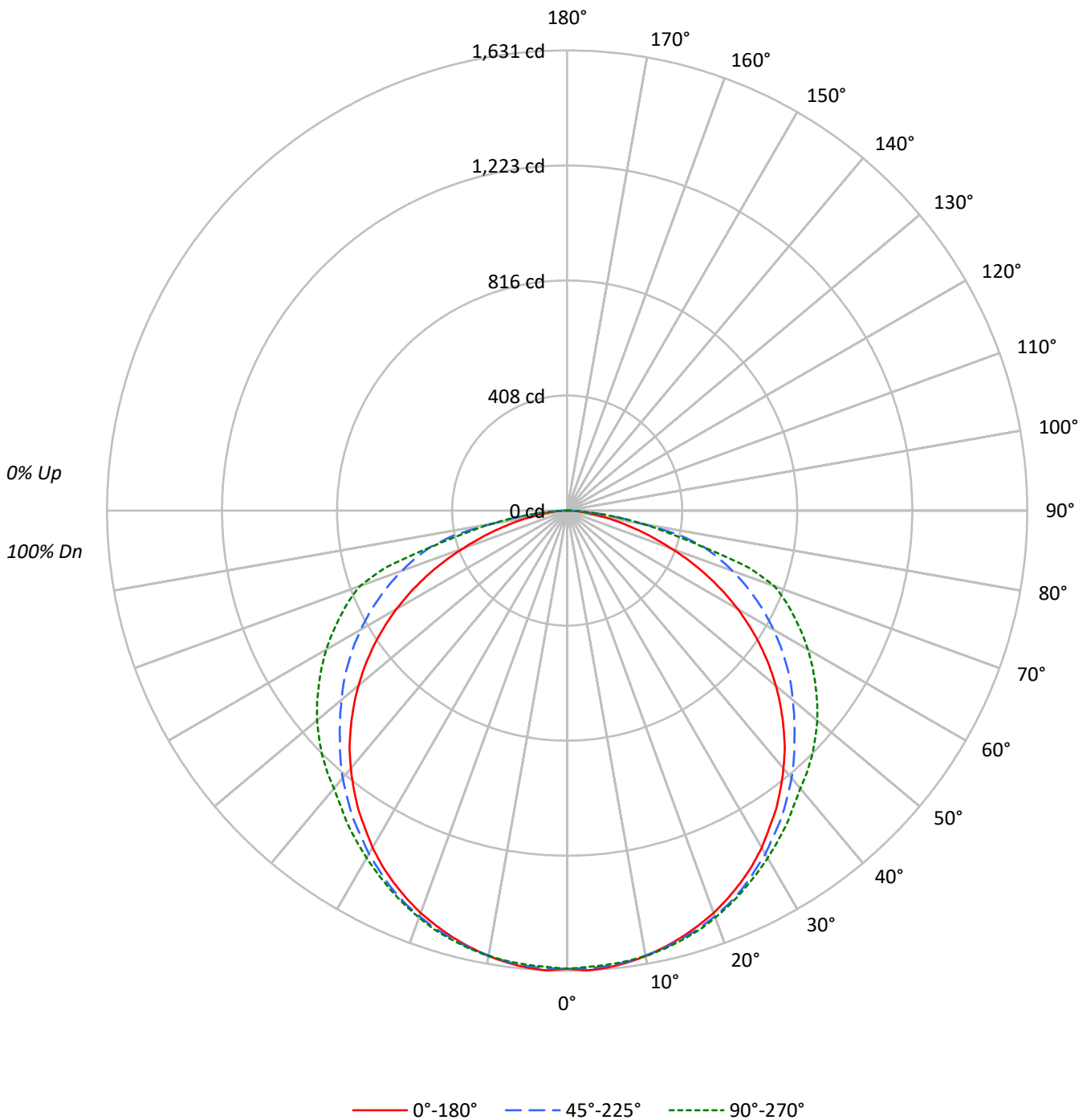
Input Watts (W): 56.079  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2185	2185	2185
5°	2196	2190	2183
10°	2191	2187	2191
15°	2181	2188	2195
20°	2173	2191	2199
25°	2160	2190	2201
30°	2143	2182	2209
35°	2120	2178	2228
40°	2095	2174	2259
45°	2063	2168	2336
50°	2021	2185	2422
55°	1964	2224	2520
60°	1879	2273	2653
65°	1750	2344	2826
70°	1547	2450	3075
75°	1298	2622	2582
80°	1035	2071	2149
85°	817	1402	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	154.0	3.0
10°-20°	443.2	8.7
20°-30°	677.0	13.2
30°-40°	827.7	16.2
40°-50°	885.9	17.3
50°-60°	849.7	16.6
60°-70°	717.5	14.0
70°-80°	458.5	9.0
80°-90°	108.4	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°	1274.2	24.9
0°-40°	2101.9	41.0
0°-60°	3837.5	74.9
0°-90°	5122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1624	1624	1624	1624	1624	
5°	1626	1616	1621	1619	1616	154
15°	1566	1561	1571	1576	1576	442
25°	1455	1452	1475	1480	1482	670
35°	1291	1301	1326	1344	1356	807
45°	1084	1102	1140	1193	1228	836
55°	837	865	948	1034	1074	747
65°	550	603	736	840	888	542
75°	250	356	504	514	497	269
85°	53	88	91	88	83	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1623.7	1623.7	1623.7	1623.7	1623.7
2.5°	1631.3	1621.2	1623.7	1623.7	1618.7
5°	1626.2	1616.2	1621.2	1618.7	1616.2
7.5°	1616.2	1608.6	1613.6	1613.6	1611.1
10°	1603.5	1596.0	1601.0	1603.5	1603.5
12.5°	1585.9	1580.9	1588.4	1588.4	1590.9
15°	1565.7	1560.7	1570.8	1575.8	1575.8
17.5°	1543.0	1540.5	1553.1	1555.6	1558.2
20°	1517.8	1515.3	1530.4	1530.4	1535.5
22.5°	1487.6	1485.0	1505.2	1505.2	1510.3
25°	1454.8	1452.3	1475.0	1480.0	1482.5
27.5°	1419.5	1417.0	1439.7	1447.2	1452.3
30°	1379.2	1379.2	1404.4	1414.4	1422.0
32.5°	1333.8	1341.3	1364.0	1379.2	1389.2
35°	1290.9	1301.0	1326.2	1343.9	1356.5
37.5°	1243.0	1253.1	1280.8	1303.5	1318.6
40°	1192.6	1205.2	1238.0	1263.2	1285.9
42.5°	1142.1	1154.8	1190.1	1227.9	1258.1
45°	1084.2	1101.8	1139.6	1192.6	1227.9
47.5°	1026.2	1043.8	1091.7	1157.3	1192.6
50°	965.7	985.8	1043.8	1119.5	1157.3
52.5°	902.6	925.3	998.4	1079.1	1116.9
55°	837.1	864.8	948.0	1033.7	1074.1
57.5°	769.0	799.3	897.6	988.3	1031.2
60°	698.4	736.2	844.6	940.4	985.8
62.5°	625.3	670.7	791.7	890.0	937.9
65°	549.6	602.6	736.2	839.6	887.5
67.5°	471.5	542.1	680.8	789.2	837.1
70°	393.3	476.5	622.8	733.7	781.6
72.5°	320.2	416.0	564.8	668.1	678.2
75°	249.6	355.5	504.3	514.3	496.7
77.5°	186.6	295.0	416.0	370.6	368.1
80°	133.6	237.0	267.3	274.8	277.3
82.5°	88.2	179.0	174.0	179.0	176.5
85°	52.9	88.2	90.8	88.2	83.2
87.5°	25.2	32.8	25.2	22.7	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)