

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: P263717

Luminaire Tested: **24CZ-LD5-70-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263717  
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-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: 4891.0 lumens  
Efficiency: N/A  
Efficacy: 90.1 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

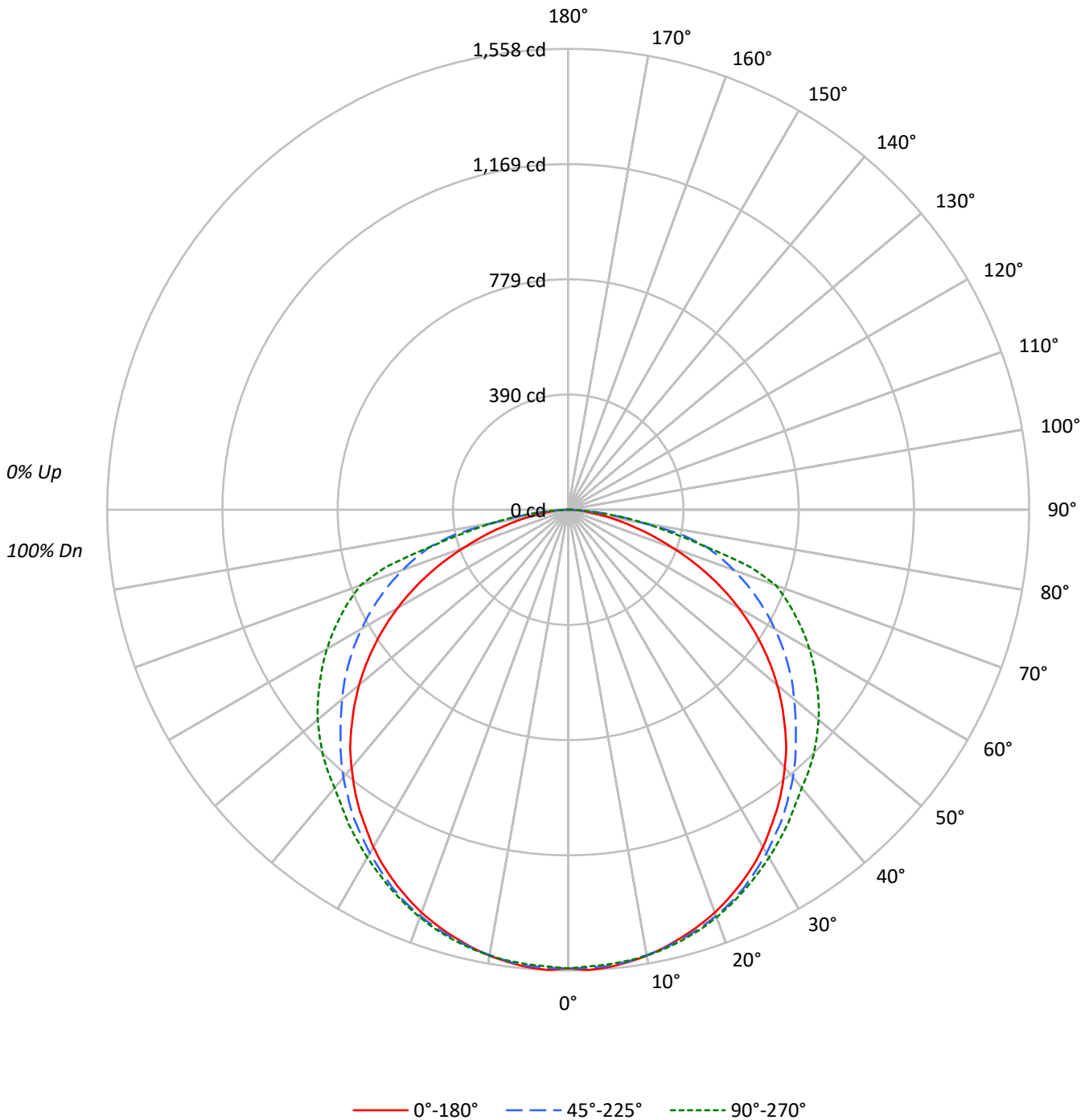
Input Watts (W): 54.312  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2086	2086	2086
5°	2097	2091	2084
10°	2092	2089	2092
15°	2083	2089	2096
20°	2075	2092	2099
25°	2062	2091	2102
30°	2046	2083	2110
35°	2025	2080	2128
40°	2000	2076	2157
45°	1970	2071	2231
50°	1930	2086	2313
55°	1875	2124	2406
60°	1795	2170	2533
65°	1671	2238	2698
70°	1478	2340	2936
75°	1239	2503	2466
80°	989	1977	2052
85°	781	1338	1227



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.1	3.0
10°-20°	423.2	8.7
20°-30°	646.5	13.2
30°-40°	790.3	16.2
40°-50°	846.0	17.3
50°-60°	811.4	16.6
60°-70°	685.1	14.0
70°-80°	437.9	9.0
80°-90°	103.6	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°	1216.7	24.9
0°-40°	2007.1	41.0
0°-60°	3664.5	74.9
0°-90°	4891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4891.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1553	1543	1548	1546	1543	147
15°	1495	1490	1500	1505	1505	422
25°	1389	1387	1408	1413	1416	640
35°	1233	1242	1266	1283	1295	771
45°	1035	1052	1088	1139	1172	799
55°	799	826	905	987	1026	713
65°	525	575	703	802	848	518
75°	238	340	482	491	474	257
85°	51	84	87	84	80	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1550.5	1550.5	1550.5	1550.5	1550.5
2.5°	1557.7	1548.1	1550.5	1550.5	1545.7
5°	1552.9	1543.3	1548.1	1545.7	1543.3
7.5°	1543.3	1536.0	1540.9	1540.9	1538.4
10°	1531.2	1524.0	1528.8	1531.2	1531.2
12.5°	1514.4	1509.6	1516.8	1516.8	1519.2
15°	1495.1	1490.3	1499.9	1504.7	1504.7
17.5°	1473.4	1471.0	1483.1	1485.5	1487.9
20°	1449.4	1447.0	1461.4	1461.4	1466.2
22.5°	1420.5	1418.1	1437.3	1437.3	1442.1
25°	1389.2	1386.8	1408.4	1413.3	1415.7
27.5°	1355.5	1353.1	1374.7	1382.0	1386.8
30°	1317.0	1317.0	1341.0	1350.7	1357.9
32.5°	1273.6	1280.8	1302.5	1317.0	1326.6
35°	1232.7	1242.3	1266.4	1283.2	1295.3
37.5°	1186.9	1196.6	1223.1	1244.7	1259.2
40°	1138.8	1150.8	1182.1	1206.2	1227.9
42.5°	1090.6	1102.7	1136.4	1172.5	1201.4
45°	1035.3	1052.1	1088.2	1138.8	1172.5
47.5°	979.9	996.7	1042.5	1105.1	1138.8
50°	922.1	941.4	996.7	1069.0	1105.1
52.5°	861.9	883.6	953.4	1030.4	1066.6
55°	799.3	825.8	905.3	987.1	1025.6
57.5°	734.3	763.2	857.1	943.8	984.7
60°	666.9	703.0	806.5	898.0	941.4
62.5°	597.1	640.4	756.0	849.9	895.6
65°	524.9	575.4	703.0	801.7	847.5
67.5°	450.2	517.6	650.0	753.6	799.3
70°	375.6	455.0	594.7	700.6	746.4
72.5°	305.8	397.3	539.3	638.0	647.6
75°	238.4	339.5	481.5	491.1	474.3
77.5°	178.2	281.7	397.3	353.9	351.5
80°	127.6	226.3	255.2	262.4	264.8
82.5°	84.3	170.9	166.1	170.9	168.5
85°	50.6	84.3	86.7	84.3	79.5
87.5°	24.1	31.3	24.1	21.7	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)