

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: P263436

Luminaire Tested: **24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263436  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-70-SQP-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4400.0 lumens  
Efficiency: N/A  
Efficacy: 79.5 lumens/watt  
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

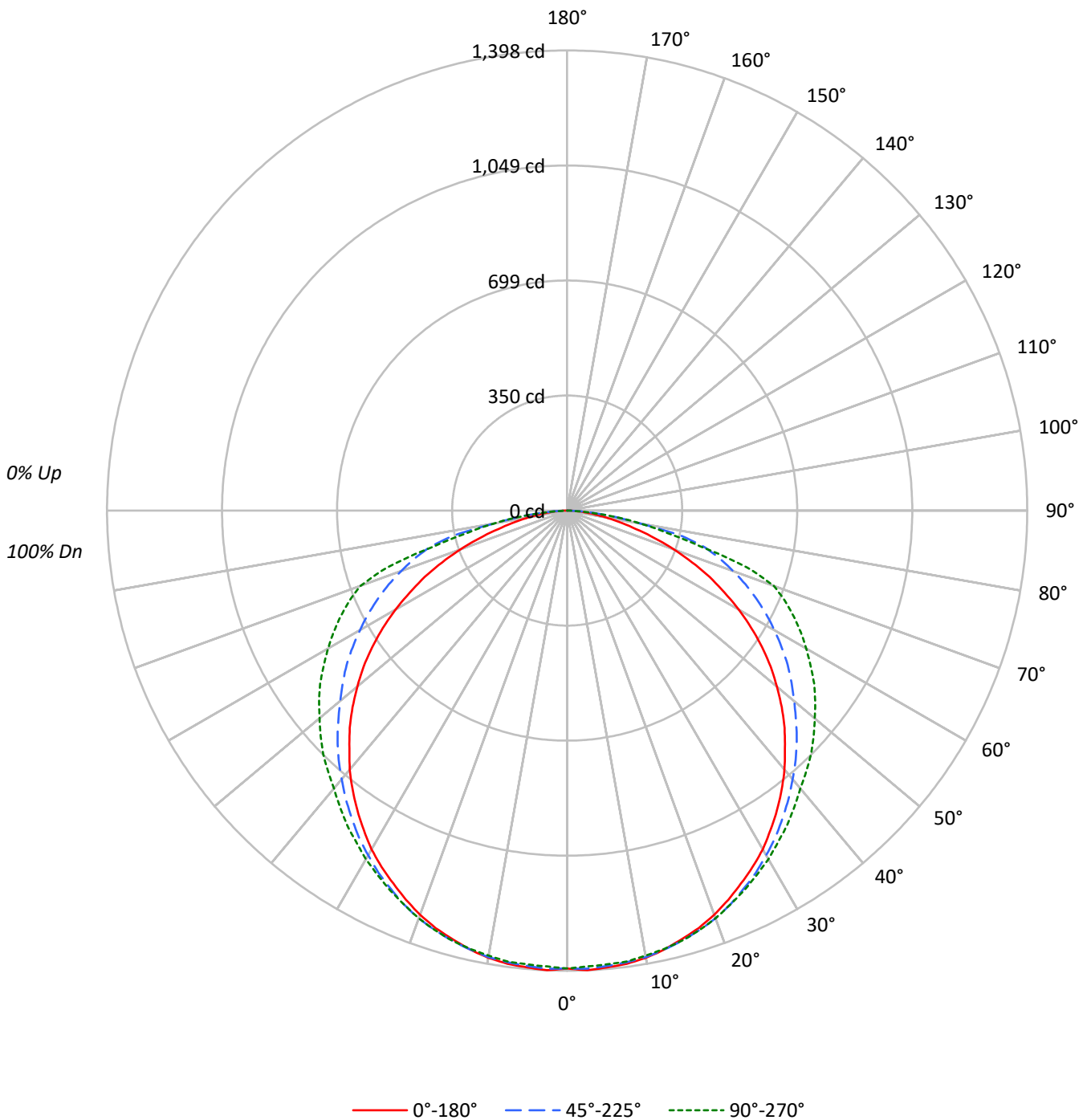
Input Watts (W): 55.335  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	63	58	56
4	81	68	59	52	79	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	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	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°	1871	1871	1871
5°	1882	1875	1869
10°	1885	1882	1875
15°	1877	1884	1884
20°	1871	1887	1887
25°	1856	1883	1889
30°	1847	1879	1900
35°	1826	1874	1915
40°	1804	1872	1936
45°	1777	1877	1994
50°	1741	1884	2055
55°	1695	1919	2149
60°	1621	1957	2257
65°	1520	2019	2417
70°	1359	2110	2629
75°	1122	2257	2174
80°	916	1743	1761
85°	736	1158	1088



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	132.1	3.0
10°-20°	381.2	8.7
20°-30°	582.6	13.2
30°-40°	712.5	16.2
40°-50°	762.4	17.3
50°-60°	730.1	16.6
60°-70°	617.6	14.0
70°-80°	391.5	8.9
80°-90°	90.1	2.0
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°	1095.9	24.9
0°-40°	1808.4	41.1
0°-60°	3300.9	75.0
0°-90°	4400.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4400.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1391	1391	1391	1391	1391	
5°	1393	1386	1389	1386	1384	133
15°	1348	1346	1352	1352	1352	381
25°	1250	1250	1268	1273	1273	577
35°	1111	1118	1141	1157	1166	695
45°	934	950	986	1027	1048	720
55°	723	746	818	886	916	645
65°	477	523	634	720	759	470
75°	216	304	434	432	418	235
85°	48	73	75	68	70	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1390.9	1390.9	1390.9	1390.9	1390.9
2.5°	1397.7	1390.9	1393.2	1390.9	1386.4
5°	1393.2	1386.4	1388.6	1386.4	1384.1
7.5°	1388.6	1381.8	1384.1	1381.8	1381.8
10°	1379.6	1372.7	1377.3	1375.0	1372.7
12.5°	1365.9	1361.4	1365.9	1363.6	1363.6
15°	1347.7	1345.5	1352.3	1352.3	1352.3
17.5°	1329.6	1327.3	1336.4	1336.4	1336.4
20°	1306.8	1304.6	1318.2	1318.2	1318.2
22.5°	1279.6	1277.3	1295.5	1295.5	1295.5
25°	1250.0	1250.0	1268.2	1272.7	1272.7
27.5°	1220.5	1220.5	1240.9	1247.7	1247.7
30°	1188.6	1188.6	1209.1	1218.2	1222.7
32.5°	1150.0	1154.6	1177.3	1188.6	1193.2
35°	1111.4	1118.2	1140.9	1156.8	1165.9
37.5°	1070.5	1077.3	1104.6	1122.7	1134.1
40°	1027.3	1036.4	1065.9	1088.6	1102.3
42.5°	979.6	993.2	1027.3	1056.8	1075.0
45°	934.1	950.0	986.4	1027.3	1047.7
47.5°	884.1	902.3	943.2	995.5	1015.9
50°	831.8	850.0	900.0	959.1	981.8
52.5°	779.6	800.0	859.1	922.7	950.0
55°	722.7	745.5	818.2	886.4	915.9
57.5°	663.6	690.9	772.7	845.5	877.3
60°	602.3	636.4	727.3	804.6	838.6
62.5°	538.6	579.6	681.8	763.6	800.0
65°	477.3	522.7	634.1	720.5	759.1
67.5°	411.4	468.2	586.4	679.6	715.9
70°	345.5	411.4	536.4	631.8	668.2
72.5°	279.5	359.1	486.4	572.7	572.7
75°	215.9	304.5	434.1	431.8	418.2
77.5°	163.6	254.5	356.8	304.5	306.8
80°	118.2	204.5	225.0	225.0	227.3
82.5°	79.5	156.8	145.5	143.2	147.7
85°	47.7	72.7	75.0	68.2	70.5
87.5°	22.7	25.0	20.5	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)