

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: P263310

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263310  
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-LD5-75-SQP-UNV-L82765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5203.0 lumens  
Efficiency: N/A  
Efficacy: 86.6 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

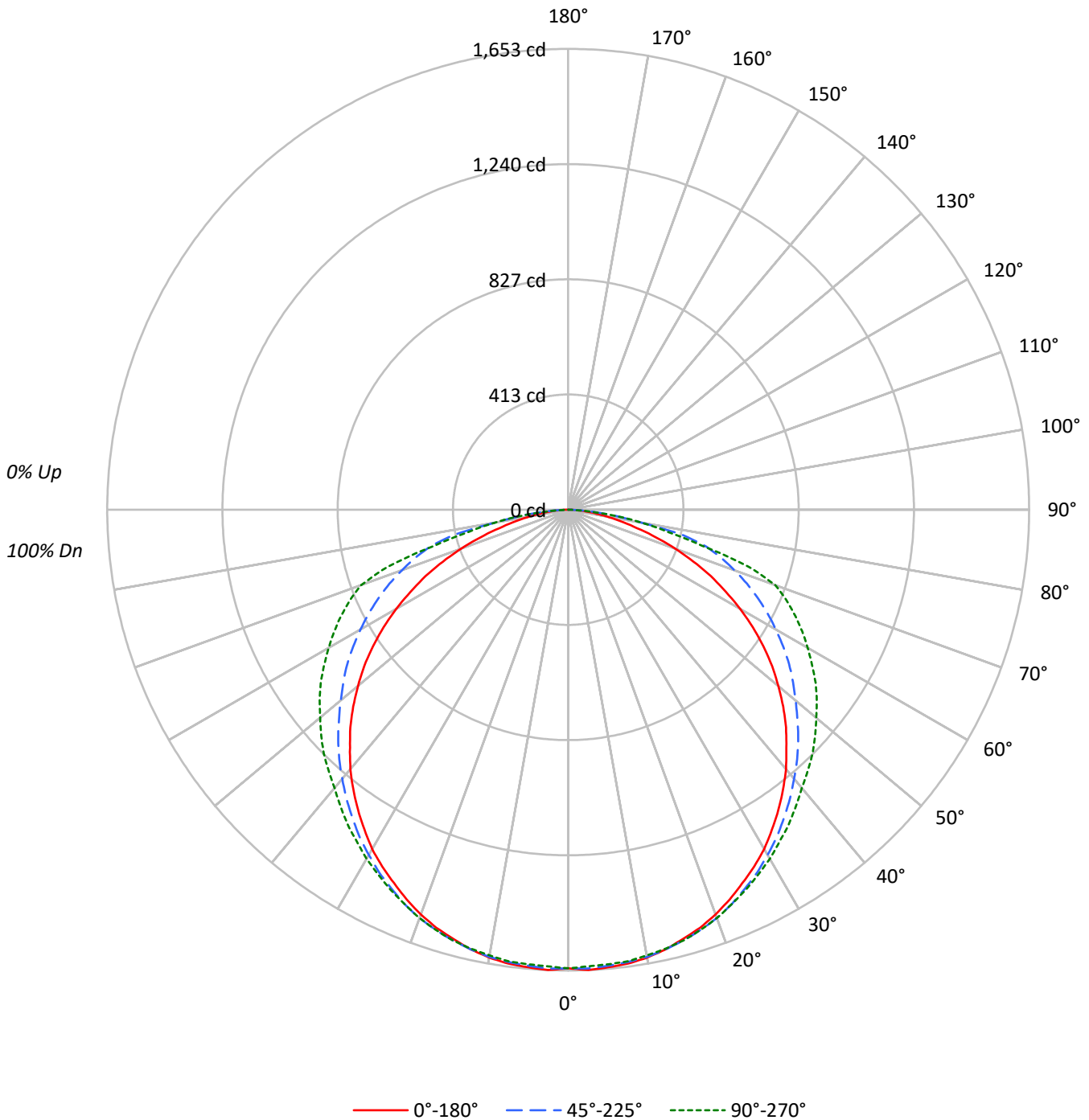
Input Watts (W): 60.078  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2213	2213	2213
5°	2225	2218	2211
10°	2229	2225	2218
15°	2220	2227	2227
20°	2213	2232	2232
25°	2194	2226	2234
30°	2184	2221	2246
35°	2159	2216	2265
40°	2134	2214	2289
45°	2102	2219	2357
50°	2059	2228	2430
55°	2005	2270	2541
60°	1917	2314	2669
65°	1797	2387	2858
70°	1607	2495	3108
75°	1327	2668	2571
80°	1083	2062	2083
85°	871	1369	1286



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.2	3.0
10°-20°	450.8	8.7
20°-30°	688.9	13.2
30°-40°	842.6	16.2
40°-50°	901.5	17.3
50°-60°	863.3	16.6
60°-70°	730.3	14.0
70°-80°	462.9	8.9
80°-90°	106.5	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°	1295.9	24.9
0°-40°	2138.5	41.1
0°-60°	3903.3	75.0
0°-90°	5203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1648	1639	1642	1639	1637	157
15°	1594	1591	1599	1599	1599	450
25°	1478	1478	1500	1505	1505	682
35°	1314	1322	1349	1368	1379	822
45°	1105	1123	1166	1215	1239	851
55°	855	882	968	1048	1083	762
65°	564	618	750	852	898	556
75°	255	360	513	511	494	278
85°	56	86	89	81	83	67
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1644.8	1644.8	1644.8	1644.8	1644.8
2.5°	1652.8	1644.8	1647.5	1644.8	1639.4
5°	1647.5	1639.4	1642.1	1639.4	1636.7
7.5°	1642.1	1634.0	1636.7	1634.0	1634.0
10°	1631.3	1623.3	1628.6	1626.0	1623.3
12.5°	1615.2	1609.8	1615.2	1612.5	1612.5
15°	1593.7	1591.0	1599.1	1599.1	1599.1
17.5°	1572.2	1569.5	1580.3	1580.3	1580.3
20°	1545.3	1542.6	1558.8	1558.8	1558.8
22.5°	1513.1	1510.4	1531.9	1531.9	1531.9
25°	1478.1	1478.1	1499.6	1505.0	1505.0
27.5°	1443.2	1443.2	1467.4	1475.5	1475.5
30°	1405.6	1405.6	1429.8	1440.5	1445.9
32.5°	1359.9	1365.3	1392.1	1405.6	1411.0
35°	1314.2	1322.3	1349.1	1368.0	1378.7
37.5°	1265.8	1273.9	1306.1	1327.6	1341.1
40°	1214.8	1225.5	1260.4	1287.3	1303.5
42.5°	1158.3	1174.4	1214.8	1249.7	1271.2
45°	1104.6	1123.4	1166.4	1214.8	1238.9
47.5°	1045.4	1066.9	1115.3	1177.1	1201.3
50°	983.6	1005.1	1064.3	1134.1	1161.0
52.5°	921.8	946.0	1015.9	1091.1	1123.4
55°	854.6	881.5	967.5	1048.1	1083.1
57.5°	784.8	817.0	913.8	999.8	1037.4
60°	712.2	752.5	860.0	951.4	991.7
62.5°	636.9	685.3	806.3	903.0	946.0
65°	564.4	618.1	749.8	851.9	897.6
67.5°	486.4	553.6	693.4	803.6	846.6
70°	408.5	486.4	634.3	747.1	790.1
72.5°	330.6	424.6	575.1	677.3	677.3
75°	255.3	360.1	513.3	610.6	610.6
77.5°	193.5	301.0	421.9	460.1	460.1
80°	139.8	241.9	266.1	266.1	268.8
82.5°	94.1	185.4	172.0	169.3	174.7
85°	56.4	86.0	88.7	80.6	83.3
87.5°	26.9	29.6	24.2	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)