

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: P263446

Luminaire Tested: **24CZ-LD5-75-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P263446  
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-L92765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH SQP LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4736.0 lumens  
Efficiency: N/A  
Efficacy: 77.5 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

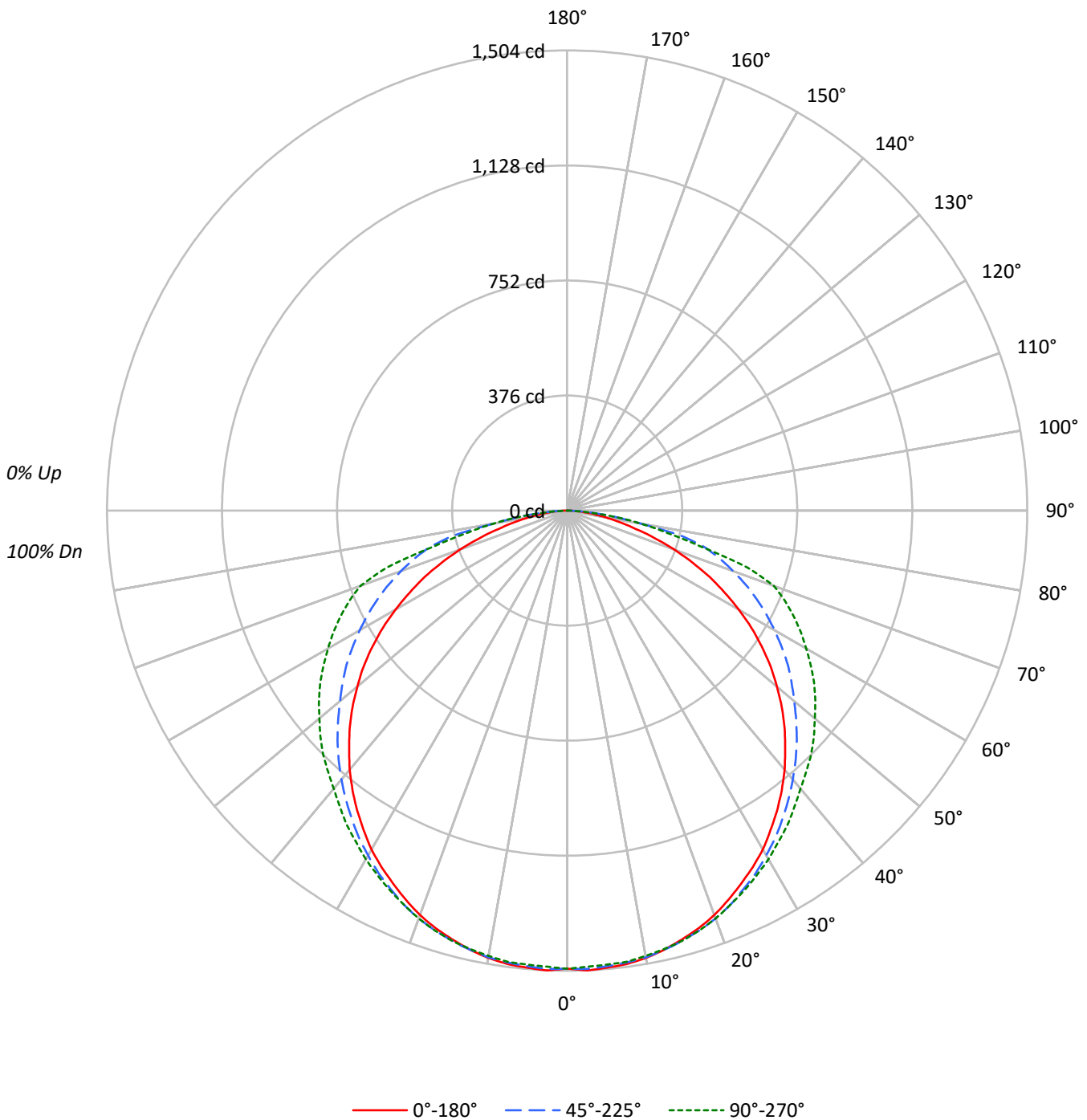
Input Watts (W): 61.101  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2014	2014	2014
5°	2025	2019	2012
10°	2029	2025	2019
15°	2021	2028	2028
20°	2014	2032	2032
25°	1998	2026	2034
30°	1988	2022	2045
35°	1965	2017	2061
40°	1942	2015	2084
45°	1913	2020	2146
50°	1874	2028	2212
55°	1825	2066	2313
60°	1745	2106	2429
65°	1635	2173	2601
70°	1463	2271	2829
75°	1208	2429	2340
80°	986	1877	1895
85°	794	1246	1170



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.2	3.0
10°-20°	410.3	8.7
20°-30°	627.1	13.2
30°-40°	766.9	16.2
40°-50°	820.6	17.3
50°-60°	785.8	16.6
60°-70°	664.7	14.0
70°-80°	421.4	8.9
80°-90°	96.9	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°	1179.6	24.9
0°-40°	1946.5	41.1
0°-60°	3552.9	75.0
0°-90°	4736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1500	1492	1495	1492	1490	143
15°	1451	1448	1456	1456	1456	410
25°	1346	1346	1365	1370	1370	621
35°	1196	1204	1228	1245	1255	748
45°	1005	1023	1062	1106	1128	775
55°	778	802	881	954	986	694
65°	514	563	682	776	817	506
75°	232	328	467	465	450	253
85°	51	78	81	73	76	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1497.1	1497.1	1497.1	1497.1	1497.1
2.5°	1504.5	1497.1	1499.6	1497.1	1492.2
5°	1499.6	1492.2	1494.7	1492.2	1489.8
7.5°	1494.7	1487.4	1489.8	1487.4	1487.4
10°	1484.9	1477.6	1482.5	1480.0	1477.6
12.5°	1470.2	1465.3	1470.2	1467.8	1467.8
15°	1450.7	1448.2	1455.6	1455.6	1455.6
17.5°	1431.1	1428.6	1438.4	1438.4	1438.4
20°	1406.6	1404.2	1418.9	1418.9	1418.9
22.5°	1377.3	1374.8	1394.4	1394.4	1394.4
25°	1345.5	1345.5	1365.0	1369.9	1369.9
27.5°	1313.7	1313.7	1335.7	1343.0	1343.0
30°	1279.4	1279.4	1301.4	1311.2	1316.1
32.5°	1237.8	1242.7	1267.2	1279.4	1284.3
35°	1196.2	1203.6	1228.0	1245.2	1255.0
37.5°	1152.2	1159.5	1188.9	1208.5	1220.7
40°	1105.7	1115.5	1147.3	1171.8	1186.5
42.5°	1054.4	1069.0	1105.7	1137.5	1157.1
45°	1005.4	1022.6	1061.7	1105.7	1127.7
47.5°	951.6	971.2	1015.2	1071.5	1093.5
50°	895.3	914.9	968.7	1032.3	1056.8
52.5°	839.1	861.1	924.7	993.2	1022.6
55°	777.9	802.4	880.7	954.1	985.9
57.5°	714.3	743.7	831.7	910.0	944.3
60°	648.3	685.0	782.8	866.0	902.7
62.5°	579.8	623.8	733.9	822.0	861.1
65°	513.7	562.7	682.5	775.5	817.1
67.5°	442.8	503.9	631.1	731.4	770.6
70°	371.8	442.8	577.3	680.1	719.2
72.5°	300.9	386.5	523.5	616.5	616.5
75°	232.4	327.8	467.2	464.8	450.1
77.5°	176.1	274.0	384.1	327.8	330.3
80°	127.2	220.2	242.2	242.2	244.6
82.5°	85.6	168.8	156.6	154.1	159.0
85°	51.4	78.3	80.7	73.4	75.8
87.5°	24.5	26.9	22.0	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)