

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: P261341

Luminaire Tested: **24CZ-LD5-75-S-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261341  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-75-S-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6791.0 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

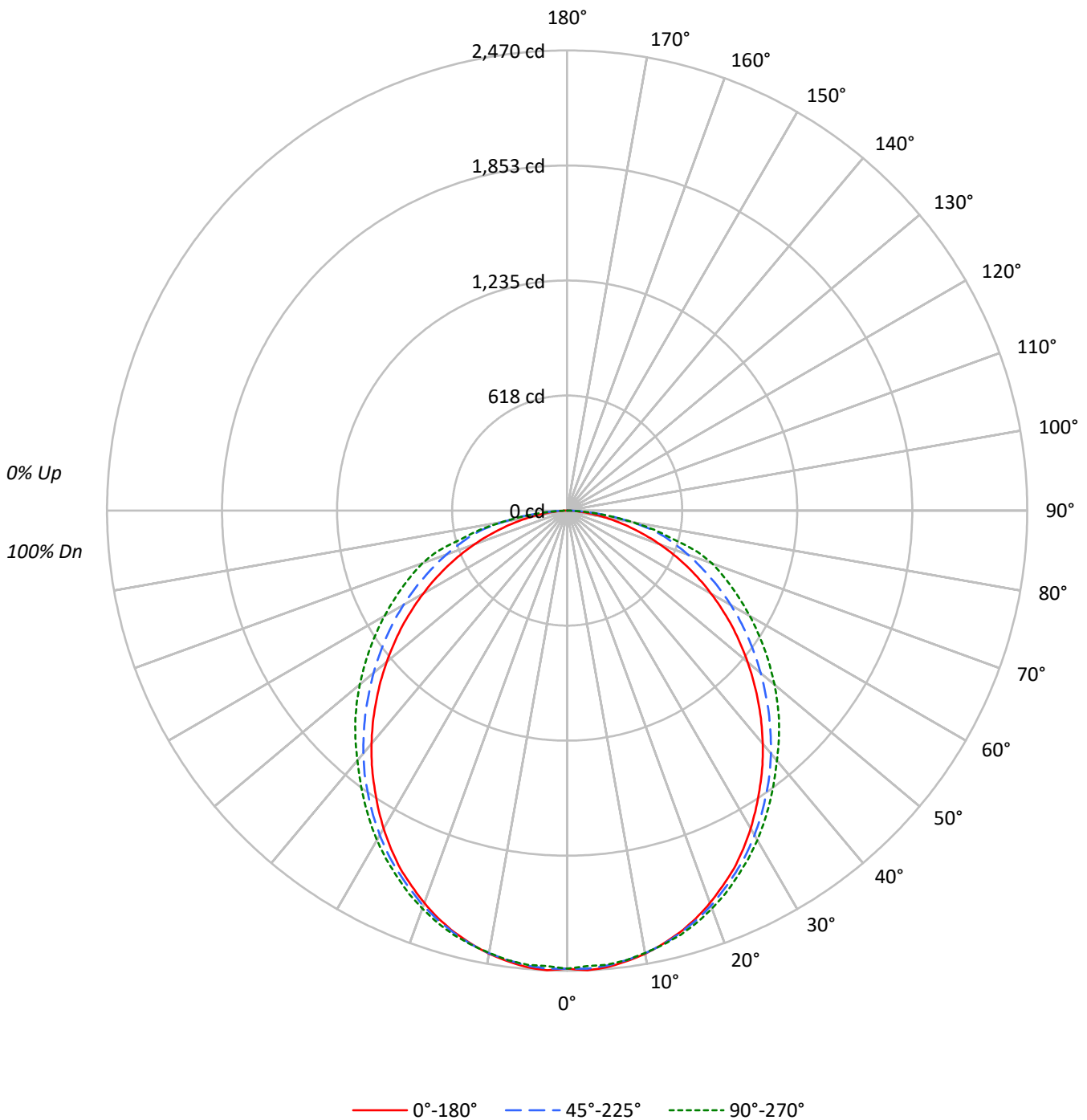
Input Watts (W): 59.055  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3308	3308	3308
5°	3323	3311	3305
10°	3300	3297	3294
15°	3264	3270	3283
20°	3209	3232	3255
25°	3147	3180	3214
30°	3061	3125	3174
35°	2965	3058	3121
40°	2869	2989	3076
45°	2760	2911	3061
50°	2649	2838	3041
55°	2534	2777	3032
60°	2402	2730	3046
65°	2259	2698	3108
70°	2080	2711	3253
75°	1844	2807	3031
80°	1540	2662	2731
85°	1152	2127	1953



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.4	3.4
10°-20°	661.1	9.7
20°-30°	985.2	14.5
30°-40°	1159.7	17.1
40°-50°	1178.5	17.4
50°-60°	1059.5	15.6
60°-70°	837.1	12.3
70°-80°	531.0	7.8
80°-90°	146.6	2.2
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°	1878.6	27.7
0°-40°	3038.3	44.7
0°-60°	5276.3	77.7
0°-90°	6791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6791.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2458	2458	2458	2458	2458	
5°	2461	2440	2452	2447	2447	233
15°	2343	2332	2348	2354	2357	660
25°	2120	2117	2142	2156	2165	975
35°	1805	1817	1862	1882	1900	1130
45°	1451	1471	1530	1575	1609	1119
55°	1080	1107	1184	1261	1292	965
65°	710	746	847	940	976	703
75°	355	416	540	588	583	378
85°	75	129	138	126	126	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2458.5	2458.5	2458.5	2458.5	2458.5
2.5°	2469.8	2451.7	2460.7	2456.2	2447.2
5°	2460.7	2440.4	2451.7	2447.2	2447.2
7.5°	2440.4	2424.6	2433.6	2431.4	2433.6
10°	2415.5	2399.7	2413.3	2413.3	2411.0
12.5°	2381.6	2368.1	2383.9	2383.9	2386.2
15°	2343.2	2331.9	2347.7	2354.5	2356.8
17.5°	2295.8	2284.5	2304.8	2311.6	2318.4
20°	2241.5	2237.0	2257.4	2264.1	2273.2
22.5°	2180.5	2180.5	2200.9	2209.9	2223.5
25°	2119.5	2117.3	2142.1	2155.7	2164.7
27.5°	2047.2	2049.5	2081.1	2094.7	2106.0
30°	1970.4	1974.9	2011.1	2026.9	2042.7
32.5°	1889.0	1898.1	1938.8	1956.8	1972.6
35°	1805.4	1816.7	1861.9	1882.3	1900.3
37.5°	1721.8	1737.6	1785.1	1805.4	1825.8
40°	1633.7	1647.3	1701.5	1726.3	1751.2
42.5°	1543.3	1561.4	1615.6	1651.8	1681.2
45°	1450.7	1471.0	1529.8	1575.0	1608.8
47.5°	1358.0	1385.1	1441.6	1502.6	1532.0
50°	1265.4	1292.5	1355.8	1423.6	1452.9
52.5°	1170.5	1197.6	1269.9	1340.0	1371.6
55°	1080.1	1107.2	1184.0	1260.9	1292.5
57.5°	985.2	1014.6	1100.4	1179.5	1211.2
60°	892.6	921.9	1014.6	1098.2	1132.1
62.5°	802.2	833.8	931.0	1019.1	1053.0
65°	709.5	745.7	847.4	940.0	976.2
67.5°	619.1	659.8	766.0	863.2	901.6
70°	528.8	576.2	689.2	788.6	827.0
72.5°	440.6	492.6	612.4	711.8	732.1
75°	354.8	415.8	540.0	587.5	583.0
77.5°	273.4	341.2	458.7	467.7	481.3
80°	198.8	273.4	343.5	361.5	352.5
82.5°	131.1	205.6	246.3	237.3	235.0
85°	74.6	128.8	137.8	126.5	126.5
87.5°	31.6	52.0	45.2	33.9	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)