

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: P260916

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-70-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6647.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

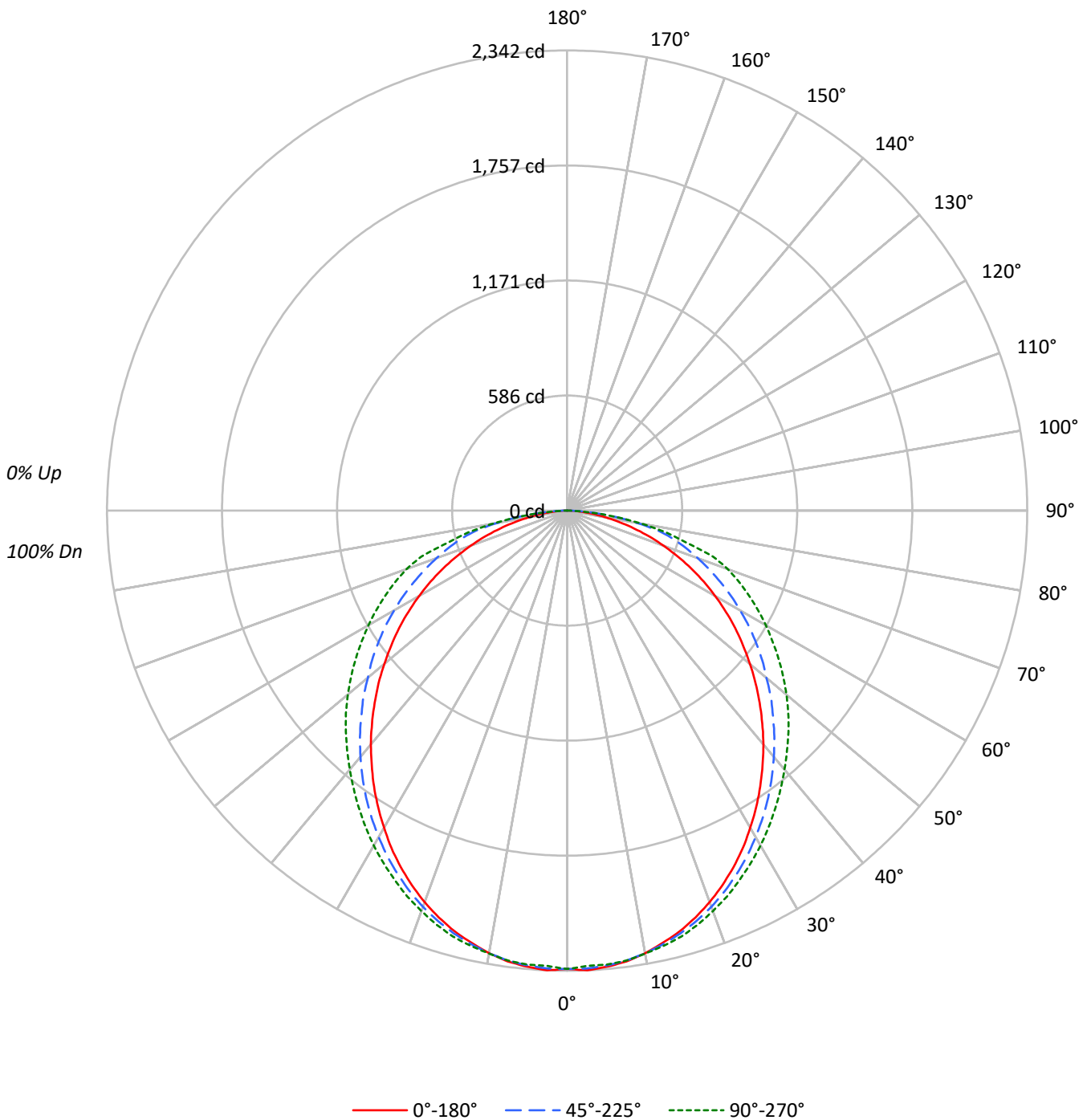
Input Watts (W): 55.335  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

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

	0°	45°	90°
0°	3139	3139	3139
5°	3148	3138	3132
10°	3125	3125	3128
15°	3088	3104	3126
20°	3037	3073	3106
25°	2973	3031	3081
30°	2896	2981	3058
35°	2815	2931	3035
40°	2730	2874	3022
45°	2637	2819	3031
50°	2544	2772	3049
55°	2450	2755	3080
60°	2340	2738	3142
65°	2217	2739	3246
70°	2050	2784	3420
75°	1834	2911	3254
80°	1534	2786	2980
85°	1159	2143	2038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.4	3.3
10°-20°	627.4	9.4
20°-30°	937.9	14.1
30°-40°	1112.7	16.7
40°-50°	1145.2	17.2
50°-60°	1050.6	15.8
60°-70°	849.5	12.8
70°-80°	551.3	8.3
80°-90°	152.0	2.3
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°	1785.7	26.9
0°-40°	2898.4	43.6
0°-60°	5094.2	76.6
0°-90°	6647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6647.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2333	2333	2333	2333	2333	
5°	2330	2314	2324	2321	2319	221
15°	2217	2208	2228	2237	2244	624
25°	2003	2005	2041	2060	2076	922
35°	1714	1727	1784	1823	1848	1072
45°	1386	1409	1482	1552	1593	1070
55°	1045	1076	1174	1270	1313	933
65°	696	737	860	974	1020	688
75°	353	419	560	626	626	375
85°	75	127	139	134	132	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2332.8	2332.8	2332.8	2332.8	2332.8
2.5°	2341.9	2323.6	2332.8	2330.5	2319.1
5°	2330.5	2314.5	2323.6	2321.4	2319.1
7.5°	2314.5	2298.6	2310.0	2307.7	2310.0
10°	2287.2	2273.6	2287.2	2289.5	2289.5
12.5°	2253.1	2241.7	2259.9	2264.5	2269.0
15°	2216.7	2207.6	2228.1	2237.2	2244.0
17.5°	2171.2	2164.3	2189.4	2200.8	2209.9
20°	2121.1	2118.8	2146.1	2157.5	2168.9
22.5°	2064.2	2064.2	2096.1	2109.7	2125.6
25°	2002.8	2005.0	2041.4	2059.6	2075.6
27.5°	1936.8	1939.0	1982.3	2005.0	2023.2
30°	1863.9	1873.0	1918.5	1948.1	1968.6
32.5°	1791.1	1802.5	1852.5	1886.7	1909.4
35°	1713.7	1727.4	1784.3	1823.0	1848.0
37.5°	1634.1	1650.0	1711.4	1754.7	1784.3
40°	1554.4	1572.6	1636.3	1686.4	1720.5
42.5°	1470.2	1490.7	1561.2	1620.4	1656.8
45°	1386.0	1408.8	1481.6	1552.1	1593.1
47.5°	1301.8	1329.1	1406.5	1483.9	1527.1
50°	1215.3	1242.6	1324.5	1413.3	1456.5
52.5°	1128.8	1160.7	1251.7	1342.8	1386.0
55°	1044.6	1076.5	1174.3	1269.9	1313.2
57.5°	958.1	990.0	1097.0	1197.1	1240.3
60°	869.4	905.8	1017.3	1119.7	1167.5
62.5°	782.9	821.6	939.9	1049.2	1094.7
65°	696.4	737.4	860.3	974.1	1019.6
67.5°	607.7	655.4	782.9	899.0	946.8
70°	521.2	573.5	707.8	823.9	869.4
72.5°	437.0	493.9	632.7	751.0	778.3
75°	352.8	418.8	559.9	625.9	625.9
77.5°	273.1	345.9	477.9	503.0	516.6
80°	198.0	277.7	359.6	389.2	384.6
82.5°	132.0	211.7	257.2	257.2	250.3
85°	75.1	127.4	138.8	134.3	132.0
87.5°	31.9	47.8	43.2	34.1	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)