

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: P261337

Luminaire Tested: **24CZ-LD5-70-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261337  
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-LD5-70-S-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6826.0 lumens  
Efficiency: N/A  
Efficacy: 121.5 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

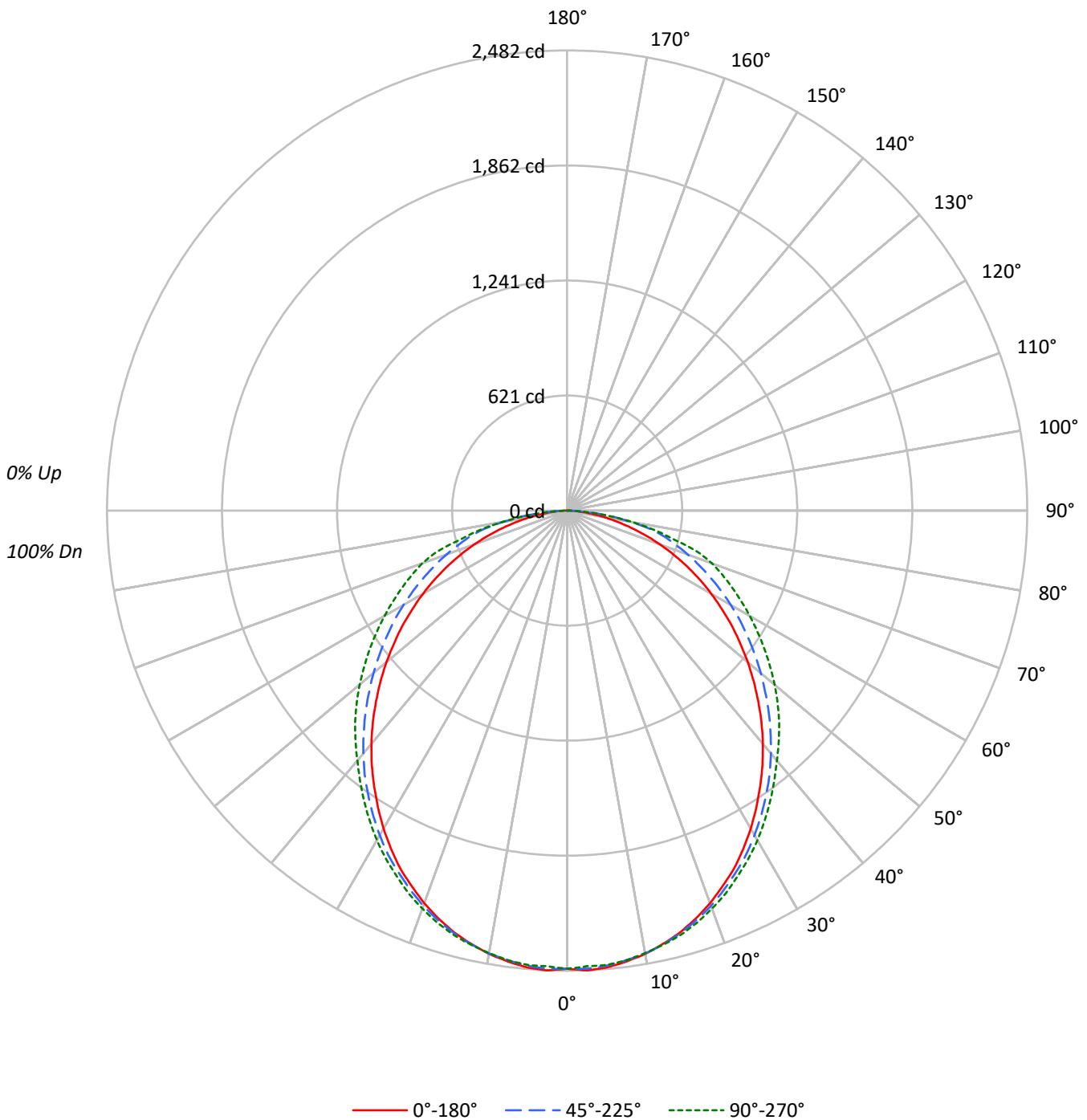
Input Watts (W): 56.172  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3325	3325	3325
5°	3341	3328	3322
10°	3317	3314	3311
15°	3281	3287	3300
20°	3226	3249	3272
25°	3163	3197	3230
30°	3077	3141	3190
35°	2981	3074	3137
40°	2884	3004	3092
45°	2775	2926	3077
50°	2662	2853	3057
55°	2547	2792	3048
60°	2414	2744	3062
65°	2271	2712	3124
70°	2091	2725	3270
75°	1854	2822	3046
80°	1549	2675	2745
85°	1158	2138	1964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	233.6	3.4
10°-20°	664.5	9.7
20°-30°	990.2	14.5
30°-40°	1165.6	17.1
40°-50°	1184.6	17.4
50°-60°	1065.0	15.6
60°-70°	841.4	12.3
70°-80°	533.8	7.8
80°-90°	147.3	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°	1888.3	27.7
0°-40°	3054.0	44.7
0°-60°	5303.6	77.7
0°-90°	6826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6826.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2471	2471	2471	2471	2471	
5°	2473	2453	2464	2460	2460	235
15°	2355	2344	2360	2367	2369	663
25°	2130	2128	2153	2167	2176	980
35°	1815	1826	1872	1892	1910	1135
45°	1458	1479	1538	1583	1617	1125
55°	1086	1113	1190	1267	1299	970
65°	713	750	852	945	981	706
75°	357	418	543	590	586	380
85°	75	130	138	127	127	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2471.1	2471.1	2471.1	2471.1	2471.1
2.5°	2482.5	2464.3	2473.4	2468.9	2459.8
5°	2473.4	2453.0	2464.3	2459.8	2459.8
7.5°	2453.0	2437.1	2446.2	2443.9	2446.2
10°	2428.0	2412.1	2425.7	2425.7	2423.4
12.5°	2393.9	2380.3	2396.2	2396.2	2398.5
15°	2355.3	2343.9	2359.8	2366.7	2368.9
17.5°	2307.6	2296.3	2316.7	2323.5	2330.3
20°	2253.1	2248.6	2269.0	2275.8	2284.9
22.5°	2191.8	2191.8	2212.2	2221.3	2234.9
25°	2130.4	2128.2	2153.2	2166.8	2175.9
27.5°	2057.8	2060.0	2091.8	2105.5	2116.8
30°	1980.5	1985.1	2021.4	2037.3	2053.2
32.5°	1898.8	1907.9	1948.7	1966.9	1982.8
35°	1814.7	1826.1	1871.5	1892.0	1910.1
37.5°	1730.7	1746.6	1794.3	1814.7	1835.2
40°	1642.1	1655.8	1710.3	1735.2	1760.2
42.5°	1551.3	1569.4	1624.0	1660.3	1689.8
45°	1458.2	1478.6	1537.6	1583.1	1617.1
47.5°	1365.0	1392.3	1449.1	1510.4	1539.9
50°	1271.9	1299.2	1362.8	1430.9	1460.4
52.5°	1176.5	1203.8	1276.5	1346.9	1378.7
55°	1085.7	1112.9	1190.1	1267.4	1299.2
57.5°	990.3	1019.8	1106.1	1185.6	1217.4
60°	897.2	926.7	1019.8	1103.8	1137.9
62.5°	806.3	838.1	935.8	1024.3	1058.4
65°	713.2	749.5	851.7	944.8	981.2
67.5°	622.3	663.2	770.0	867.6	906.2
70°	531.5	579.2	692.7	792.7	831.3
72.5°	442.9	495.1	615.5	715.4	735.9
75°	356.6	417.9	542.8	590.5	586.0
77.5°	274.8	343.0	461.1	470.2	483.8
80°	199.9	274.8	345.2	363.4	354.3
82.5°	131.7	206.7	247.6	238.5	236.2
85°	75.0	129.5	138.5	127.2	127.2
87.5°	31.8	52.2	45.4	34.1	31.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)