

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: P261335

Luminaire Tested: **24CZ-LD5-70-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261335  
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-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6750.0 lumens  
Efficiency: N/A  
Efficacy: 122.4 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

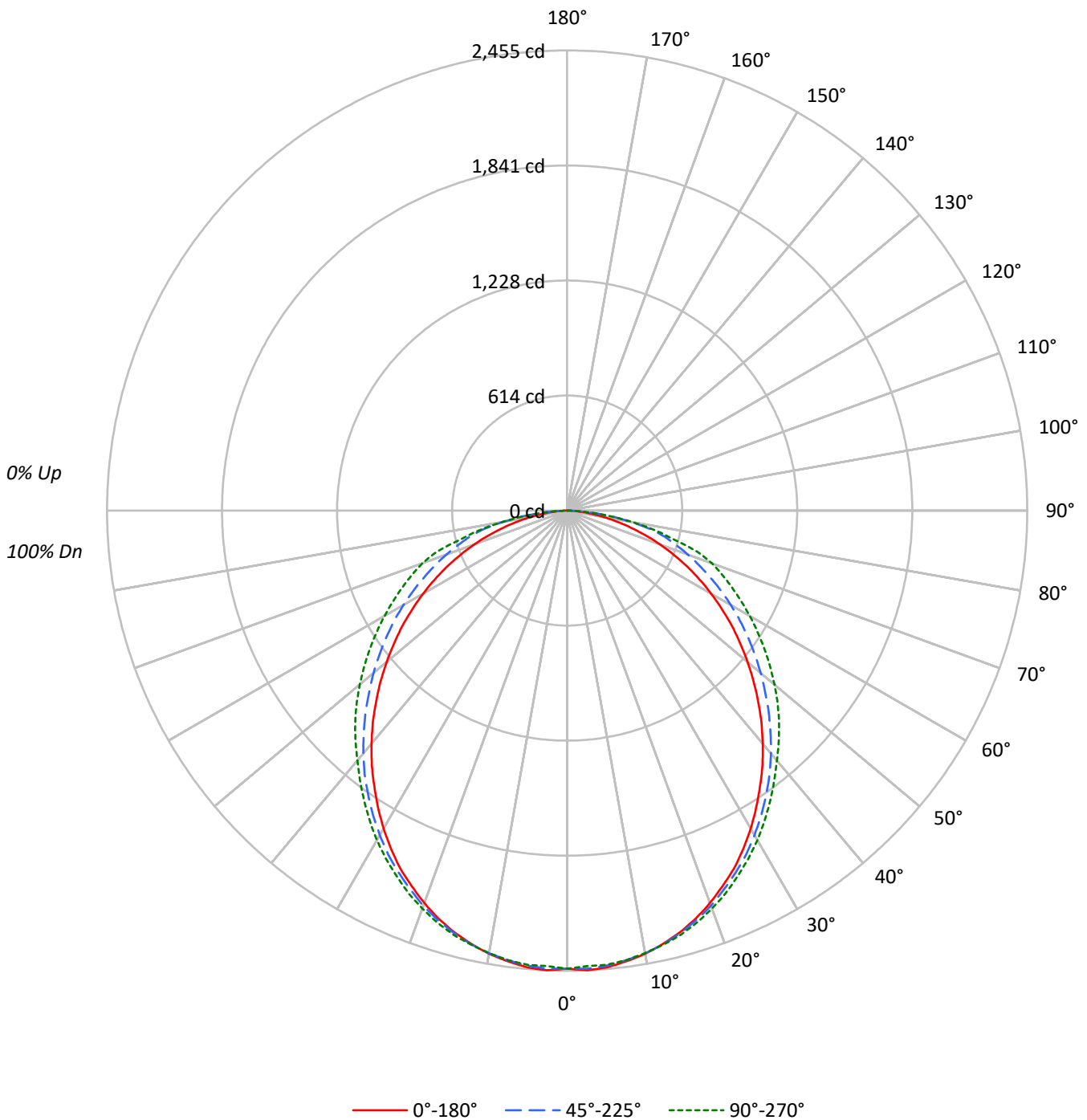
Input Watts (W): 55.149  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3288	3288	3288
5°	3304	3291	3285
10°	3280	3277	3274
15°	3244	3251	3263
20°	3190	3213	3235
25°	3128	3161	3194
30°	3043	3106	3155
35°	2948	3040	3103
40°	2852	2970	3057
45°	2744	2893	3043
50°	2633	2821	3023
55°	2518	2761	3014
60°	2387	2714	3028
65°	2245	2681	3089
70°	2068	2695	3234
75°	1833	2791	3013
80°	1531	2645	2715
85°	1144	2115	1942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.0	3.4
10°-20°	657.1	9.7
20°-30°	979.2	14.5
30°-40°	1152.7	17.1
40°-50°	1171.4	17.4
50°-60°	1053.1	15.6
60°-70°	832.0	12.3
70°-80°	527.8	7.8
80°-90°	145.7	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°	1867.3	27.7
0°-40°	3020.0	44.7
0°-60°	5244.5	77.7
0°-90°	6750.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6750.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2444	2444	2444	2444	2444	
5°	2446	2426	2437	2432	2432	232
15°	2329	2318	2334	2340	2343	656
25°	2107	2104	2129	2143	2152	969
35°	1794	1806	1851	1871	1889	1123
45°	1442	1462	1520	1565	1599	1113
55°	1074	1100	1177	1253	1285	959
65°	705	741	842	934	970	699
75°	353	413	537	584	580	375
85°	74	128	137	126	126	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2443.6	2443.6	2443.6	2443.6	2443.6
2.5°	2454.9	2436.9	2445.9	2441.4	2432.4
5°	2445.9	2425.7	2436.9	2432.4	2432.4
7.5°	2425.7	2409.9	2418.9	2416.7	2418.9
10°	2401.0	2385.2	2398.7	2398.7	2396.5
12.5°	2367.3	2353.8	2369.5	2369.5	2371.8
15°	2329.1	2317.8	2333.6	2340.3	2342.6
17.5°	2281.9	2270.7	2290.9	2297.6	2304.4
20°	2228.0	2223.5	2243.7	2250.5	2259.5
22.5°	2167.4	2167.4	2187.6	2196.6	2210.0
25°	2106.7	2104.5	2129.2	2142.7	2151.6
27.5°	2034.9	2037.1	2068.5	2082.0	2093.3
30°	1958.5	1963.0	1998.9	2014.6	2030.4
32.5°	1877.6	1886.6	1927.0	1945.0	1960.7
35°	1794.5	1805.8	1850.7	1870.9	1888.9
37.5°	1711.4	1727.2	1774.3	1794.5	1814.8
40°	1623.8	1637.3	1691.2	1715.9	1740.6
42.5°	1534.0	1552.0	1605.9	1641.8	1671.0
45°	1441.9	1462.1	1520.5	1565.4	1599.1
47.5°	1349.8	1376.8	1432.9	1493.6	1522.8
50°	1257.7	1284.7	1347.6	1415.0	1444.2
52.5°	1163.4	1190.4	1262.2	1331.9	1363.3
55°	1073.6	1100.5	1176.9	1253.3	1284.7
57.5°	979.2	1008.4	1093.8	1172.4	1203.8
60°	887.2	916.4	1008.4	1091.5	1125.2
62.5°	797.3	828.8	925.3	1012.9	1046.6
65°	705.2	741.2	842.2	934.3	970.3
67.5°	615.4	655.8	761.4	858.0	896.1
70°	525.6	572.7	685.0	783.8	822.0
72.5°	438.0	489.6	608.7	707.5	727.7
75°	352.6	413.3	536.8	584.0	579.5
77.5°	271.8	339.1	455.9	464.9	478.4
80°	197.6	271.8	341.4	359.4	350.4
82.5°	130.3	204.4	244.8	235.8	233.6
85°	74.1	128.0	137.0	125.8	125.8
87.5°	31.4	51.7	44.9	33.7	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)