

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: P261345

Luminaire Tested: **24CZ-LD5-75-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261345  
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-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7248.0 lumens  
Efficiency: N/A  
Efficacy: 120.5 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

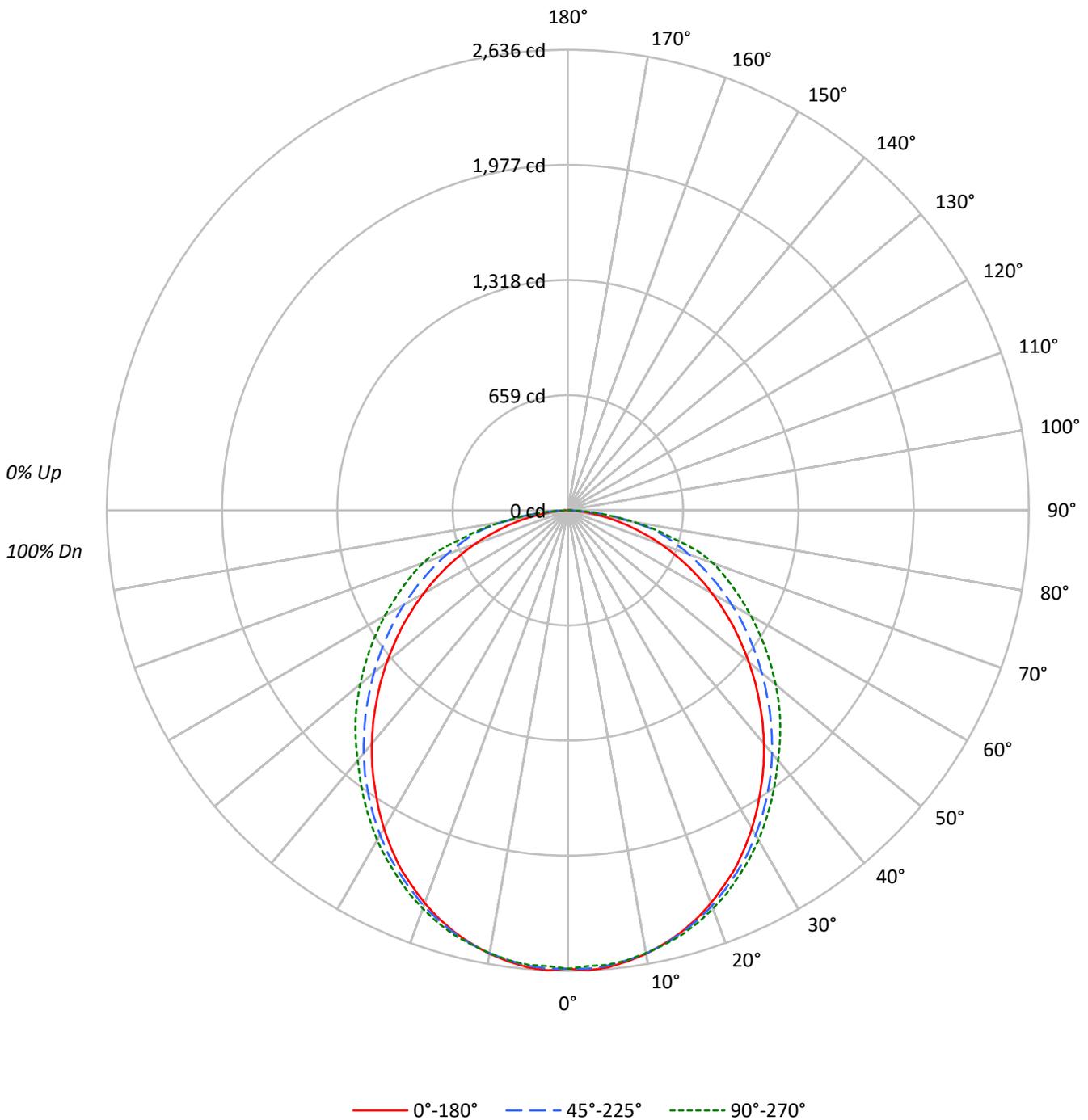
Input Watts (W): 60.171  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3530	3530	3530
5°	3547	3534	3528
10°	3522	3519	3516
15°	3484	3490	3504
20°	3426	3450	3474
25°	3358	3394	3430
30°	3267	3335	3387
35°	3165	3264	3331
40°	3062	3190	3283
45°	2946	3107	3267
50°	2827	3029	3246
55°	2704	2964	3236
60°	2563	2914	3252
65°	2411	2879	3317
70°	2220	2894	3472
75°	1968	2996	3235
80°	1644	2841	2915
85°	1229	2271	2086



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.1	3.4
10°-20°	705.5	9.7
20°-30°	1051.4	14.5
30°-40°	1237.7	17.1
40°-50°	1257.8	17.4
50°-60°	1130.8	15.6
60°-70°	893.4	12.3
70°-80°	566.8	7.8
80°-90°	156.4	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°	2005.1	27.7
0°-40°	3242.8	44.7
0°-60°	5631.4	77.7
0°-90°	7248.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7248.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2624	2624	2624	2624	2624	
5°	2626	2605	2617	2612	2612	249
15°	2501	2489	2506	2513	2515	704
25°	2262	2260	2286	2301	2310	1040
35°	1927	1939	1987	2009	2028	1206
45°	1548	1570	1633	1681	1717	1195
55°	1153	1182	1264	1346	1380	1029
65°	757	796	904	1003	1042	750
75°	379	444	576	627	622	403
85°	80	138	147	135	135	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2623.9	2623.9	2623.9	2623.9	2623.9
2.5°	2636.0	2616.7	2626.3	2621.5	2611.9
5°	2626.3	2604.6	2616.7	2611.9	2611.9
7.5°	2604.6	2587.7	2597.4	2595.0	2597.4
10°	2578.1	2561.2	2575.7	2575.7	2573.3
12.5°	2541.9	2527.4	2544.3	2544.3	2546.7
15°	2500.9	2488.9	2505.7	2513.0	2515.4
17.5°	2450.3	2438.2	2459.9	2467.2	2474.4
20°	2392.4	2387.6	2409.3	2416.5	2426.2
22.5°	2327.3	2327.3	2349.0	2358.6	2373.1
25°	2262.2	2259.7	2286.3	2300.7	2310.4
27.5°	2185.0	2187.4	2221.2	2235.6	2247.7
30°	2103.0	2107.8	2146.4	2163.3	2180.2
32.5°	2016.2	2025.8	2069.2	2088.5	2105.4
35°	1926.9	1939.0	1987.2	2008.9	2028.2
37.5°	1837.7	1854.6	1905.2	1926.9	1948.6
40°	1743.6	1758.1	1816.0	1842.5	1869.1
42.5°	1647.2	1666.5	1724.4	1762.9	1794.3
45°	1548.3	1570.0	1632.7	1680.9	1717.1
47.5°	1449.4	1478.4	1538.7	1603.8	1635.1
50°	1350.5	1379.5	1447.0	1519.4	1550.7
52.5°	1249.3	1278.2	1355.4	1430.1	1463.9
55°	1152.8	1181.7	1263.7	1345.7	1379.5
57.5°	1051.5	1082.8	1174.5	1258.9	1292.7
60°	952.6	984.0	1082.8	1172.1	1208.3
62.5°	856.1	889.9	993.6	1087.7	1123.8
65°	757.3	795.9	904.4	1003.3	1041.8
67.5°	660.8	704.2	817.6	921.3	962.3
70°	564.3	615.0	735.6	841.7	882.7
72.5°	470.3	525.7	653.6	759.7	781.4
75°	378.6	443.7	576.4	627.0	622.2
77.5°	291.8	364.2	489.6	499.2	513.7
80°	212.2	291.8	366.6	385.9	376.2
82.5°	139.9	219.5	262.9	253.2	250.8
85°	79.6	137.5	147.1	135.1	135.1
87.5°	33.8	55.5	48.2	36.2	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)