

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: P260776

Luminaire Tested: **24CZ-LD5-70-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260776  
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-L82765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6887.0 lumens  
Efficiency: N/A  
Efficacy: 127.7 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

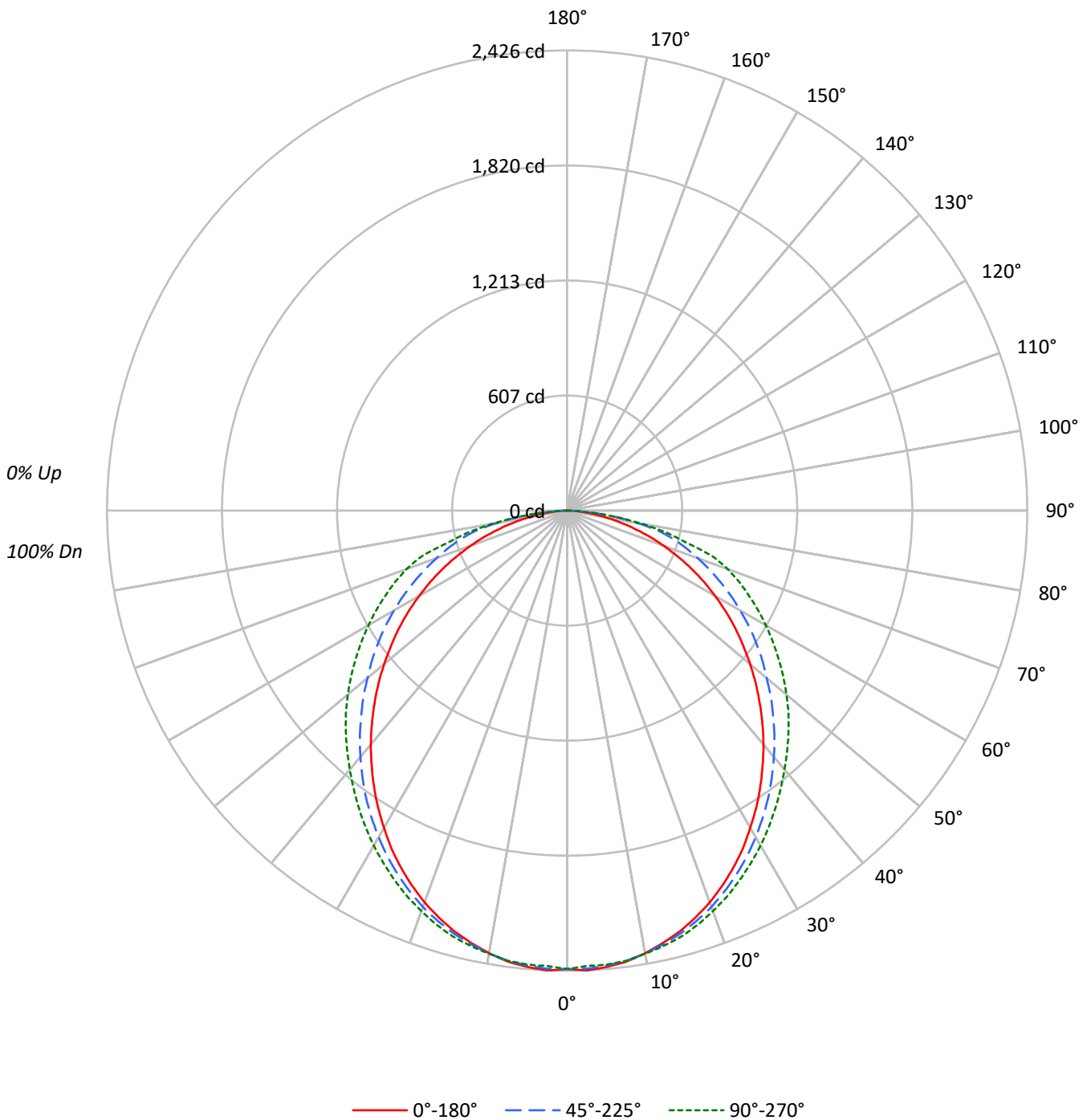
Input Watts (W): 53.94  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	3252	3252	3252
5°	3261	3252	3245
10°	3238	3238	3241
15°	3199	3216	3239
20°	3147	3184	3218
25°	3081	3140	3193
30°	3000	3088	3169
35°	2916	3037	3145
40°	2829	2978	3131
45°	2732	2921	3141
50°	2636	2873	3159
55°	2539	2854	3192
60°	2424	2836	3255
65°	2297	2838	3363
70°	2124	2885	3544
75°	1900	3016	3371
80°	1589	2887	3088
85°	1201	2220	2112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.4	3.3
10°-20°	650.0	9.4
20°-30°	971.8	14.1
30°-40°	1152.8	16.7
40°-50°	1186.6	17.2
50°-60°	1088.5	15.8
60°-70°	880.1	12.8
70°-80°	571.2	8.3
80°-90°	157.5	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°	1850.2	26.9
0°-40°	3003.1	43.6
0°-60°	5278.1	76.6
0°-90°	6887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6887.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2417	2417	2417	2417	2417	
5°	2415	2398	2408	2405	2403	229
15°	2297	2287	2308	2318	2325	647
25°	2075	2077	2115	2134	2150	955
35°	1776	1790	1849	1889	1915	1110
45°	1436	1460	1535	1608	1651	1108
55°	1082	1115	1217	1316	1361	967
65°	722	764	891	1009	1056	713
75°	366	434	580	648	648	388
85°	78	132	144	139	137	95
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2417.0	2417.0	2417.0	2417.0	2417.0
2.5°	2426.4	2407.5	2417.0	2414.6	2402.8
5°	2414.6	2398.1	2407.5	2405.2	2402.8
7.5°	2398.1	2381.6	2393.4	2391.0	2393.4
10°	2369.8	2355.7	2369.8	2372.2	2372.2
12.5°	2334.4	2322.7	2341.5	2346.2	2351.0
15°	2296.7	2287.3	2308.5	2317.9	2325.0
17.5°	2249.6	2242.5	2268.4	2280.2	2289.6
20°	2197.7	2195.3	2223.6	2235.4	2247.2
22.5°	2138.7	2138.7	2171.7	2185.9	2202.4
25°	2075.1	2077.4	2115.2	2134.0	2150.5
27.5°	2006.7	2009.0	2053.8	2077.4	2096.3
30°	1931.2	1940.7	1987.8	2018.5	2039.7
32.5°	1855.8	1867.6	1919.4	1954.8	1978.4
35°	1775.6	1789.7	1848.7	1888.8	1914.7
37.5°	1693.1	1709.6	1773.2	1818.0	1848.7
40°	1610.5	1629.4	1695.4	1747.3	1782.7
42.5°	1523.3	1544.5	1617.6	1678.9	1716.6
45°	1436.0	1459.6	1535.1	1608.2	1650.6
47.5°	1348.8	1377.1	1457.3	1537.4	1582.2
50°	1259.2	1287.5	1372.4	1464.3	1509.1
52.5°	1169.6	1202.6	1296.9	1391.2	1436.0
55°	1082.3	1115.3	1216.7	1315.8	1360.6
57.5°	992.7	1025.7	1136.6	1240.3	1285.1
60°	900.8	938.5	1054.0	1160.1	1209.7
62.5°	811.2	851.2	973.9	1087.1	1134.2
65°	721.6	764.0	891.3	1009.2	1056.4
67.5°	629.6	679.1	811.2	931.4	980.9
70°	540.0	594.2	733.3	853.6	900.8
72.5°	452.7	511.7	655.5	778.1	806.4
75°	365.5	433.9	580.1	648.5	648.5
77.5°	283.0	358.4	495.2	521.1	535.3
80°	205.1	287.7	372.6	403.2	398.5
82.5°	136.8	219.3	266.5	266.5	259.4
85°	77.8	132.0	143.8	139.1	136.8
87.5°	33.0	49.5	44.8	35.4	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)