

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: P260753

Luminaire Tested: **24CZ-LD5-55-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260753  
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-LD5-55-UNV-L82765-W2A1-U-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5771.0 lumens  
Efficiency: N/A  
Efficacy: 140.1 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

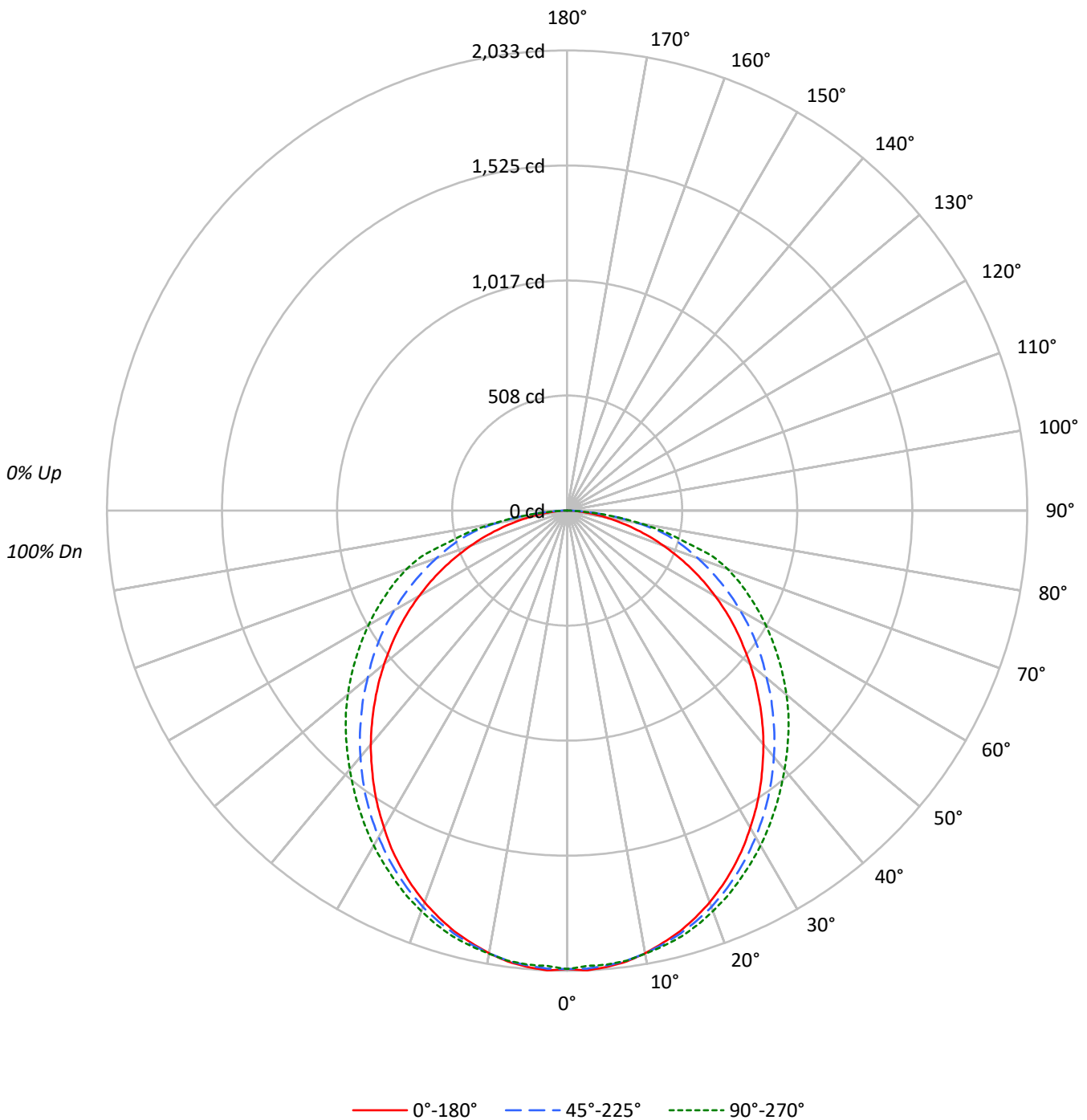
Input Watts (W): 41.199  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2725	2725	2725
5°	2733	2725	2719
10°	2713	2713	2716
15°	2681	2695	2714
20°	2637	2668	2696
25°	2581	2631	2675
30°	2514	2588	2655
35°	2444	2544	2635
40°	2370	2495	2624
45°	2290	2448	2632
50°	2209	2407	2647
55°	2127	2392	2674
60°	2031	2377	2728
65°	1925	2378	2818
70°	1780	2417	2969
75°	1592	2527	2825
80°	1332	2419	2587
85°	1007	1860	1769



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.4	3.3
10°-20°	544.7	9.4
20°-30°	814.3	14.1
30°-40°	966.0	16.7
40°-50°	994.3	17.2
50°-60°	912.1	15.8
60°-70°	737.5	12.8
70°-80°	478.6	8.3
80°-90°	132.0	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°	1550.4	26.9
0°-40°	2516.4	43.6
0°-60°	4422.9	76.6
0°-90°	5771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5771.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2025	2025	2025	2025	2025	
5°	2023	2010	2017	2015	2014	192
15°	1924	1917	1934	1942	1948	542
25°	1739	1741	1772	1788	1802	800
35°	1488	1500	1549	1583	1604	930
45°	1203	1223	1286	1348	1383	929
55°	907	935	1020	1103	1140	810
65°	605	640	747	846	885	598
75°	306	364	486	543	543	326
85°	65	111	120	117	115	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2025.3	2025.3	2025.3	2025.3	2025.3
2.5°	2033.2	2017.4	2025.3	2023.3	2013.5
5°	2023.3	2009.5	2017.4	2015.4	2013.5
7.5°	2009.5	1995.7	2005.6	2003.6	2005.6
10°	1985.8	1973.9	1985.8	1987.8	1987.8
12.5°	1956.2	1946.3	1962.1	1966.0	1970.0
15°	1924.5	1916.6	1934.4	1942.3	1948.3
17.5°	1885.0	1879.1	1900.8	1910.7	1918.6
20°	1841.6	1839.6	1863.3	1873.2	1883.1
22.5°	1792.2	1792.2	1819.8	1831.7	1845.5
25°	1738.8	1740.8	1772.4	1788.2	1802.0
27.5°	1681.5	1683.5	1721.0	1740.8	1756.6
30°	1618.3	1626.2	1665.7	1691.4	1709.2
32.5°	1555.1	1564.9	1608.4	1638.0	1657.8
35°	1487.9	1499.7	1549.1	1582.7	1604.4
37.5°	1418.7	1432.5	1485.9	1523.4	1549.1
40°	1349.6	1365.4	1420.7	1464.2	1493.8
42.5°	1276.4	1294.2	1355.5	1406.9	1438.5
45°	1203.3	1223.1	1286.3	1347.6	1383.1
47.5°	1130.2	1153.9	1221.1	1288.3	1325.8
50°	1055.1	1078.9	1150.0	1227.0	1264.6
52.5°	980.1	1007.7	1086.8	1165.8	1203.3
55°	906.9	934.6	1019.6	1102.6	1140.1
57.5°	831.9	859.5	952.4	1039.3	1076.9
60°	754.8	786.4	883.2	972.2	1013.6
62.5°	679.7	713.3	816.1	910.9	950.4
65°	604.6	640.2	746.9	845.7	885.2
67.5°	527.6	569.1	679.7	780.5	822.0
70°	452.5	497.9	614.5	715.3	754.8
72.5°	379.4	428.8	549.3	652.1	675.8
75°	306.3	363.6	486.1	543.4	543.4
77.5°	237.1	300.3	414.9	436.7	448.5
80°	171.9	241.1	312.2	337.9	333.9
82.5°	114.6	183.8	223.3	223.3	217.4
85°	65.2	110.7	120.5	116.6	114.6
87.5°	27.7	41.5	37.5	29.6	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)