

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: P261172

Luminaire Tested: **24CZ-LD5-55-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261172  
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-LD5-55-S-UNV-L82765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5829.0 lumens  
Efficiency: N/A  
Efficacy: 142.1 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

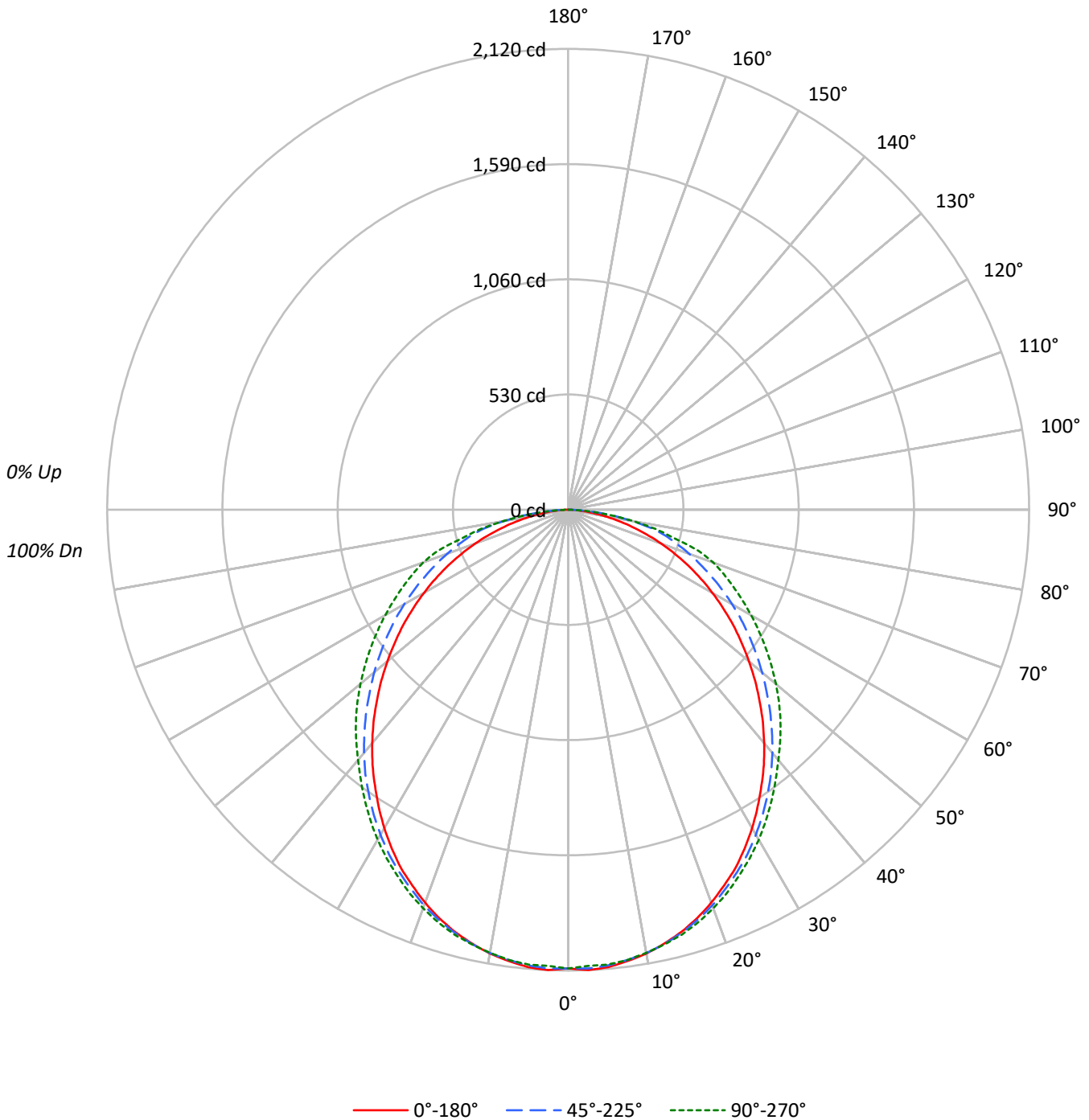
Input Watts (W): 41.013  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2839	2839	2839
5°	2853	2842	2837
10°	2833	2830	2827
15°	2802	2807	2818
20°	2755	2774	2794
25°	2701	2730	2759
30°	2628	2682	2724
35°	2545	2625	2679
40°	2463	2565	2640
45°	2369	2499	2628
50°	2273	2436	2610
55°	2175	2384	2602
60°	2062	2343	2615
65°	1939	2316	2668
70°	1785	2327	2793
75°	1583	2410	2601
80°	1323	2284	2345
85°	988	1826	1677



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.5	3.4
10°-20°	567.4	9.7
20°-30°	845.6	14.5
30°-40°	995.4	17.1
40°-50°	1011.5	17.4
50°-60°	909.4	15.6
60°-70°	718.5	12.3
70°-80°	455.8	7.8
80°-90°	125.8	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°	1612.5	27.7
0°-40°	2607.9	44.7
0°-60°	4528.9	77.7
0°-90°	5829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5829.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2110	2110	2110	2110	2110	
5°	2112	2095	2104	2100	2100	200
15°	2011	2002	2015	2021	2023	567
25°	1819	1817	1839	1850	1858	836
35°	1550	1559	1598	1616	1631	970
45°	1245	1263	1313	1352	1381	961
55°	927	950	1016	1082	1109	828
65°	609	640	727	807	838	603
75°	304	357	464	504	500	324
85°	64	111	118	109	109	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2110.2	2110.2	2110.2	2110.2	2110.2
2.5°	2119.9	2104.4	2112.1	2108.3	2100.5
5°	2112.1	2094.7	2104.4	2100.5	2100.5
7.5°	2094.7	2081.1	2088.9	2086.9	2088.9
10°	2073.4	2059.8	2071.4	2071.4	2069.5
12.5°	2044.3	2032.6	2046.2	2046.2	2048.1
15°	2011.3	2001.6	2015.2	2021.0	2022.9
17.5°	1970.6	1960.9	1978.3	1984.1	1990.0
20°	1924.0	1920.1	1937.6	1943.4	1951.2
22.5°	1871.6	1871.6	1889.1	1896.9	1908.5
25°	1819.3	1817.3	1838.7	1850.3	1858.1
27.5°	1757.2	1759.2	1786.3	1797.9	1807.6
30°	1691.3	1695.1	1726.2	1739.8	1753.3
32.5°	1621.4	1629.2	1664.1	1679.6	1693.2
35°	1549.7	1559.4	1598.2	1615.6	1631.1
37.5°	1477.9	1491.5	1532.2	1549.7	1567.1
40°	1402.3	1413.9	1460.5	1481.8	1503.1
42.5°	1324.7	1340.2	1386.8	1417.8	1443.0
45°	1245.2	1262.6	1313.1	1351.9	1380.9
47.5°	1165.7	1188.9	1237.4	1289.8	1315.0
50°	1086.1	1109.4	1163.7	1221.9	1247.1
52.5°	1004.7	1027.9	1090.0	1150.1	1177.3
55°	927.1	950.4	1016.3	1082.3	1109.4
57.5°	845.6	870.8	944.5	1012.4	1039.6
60°	766.1	791.3	870.8	942.6	971.7
62.5°	688.5	715.7	799.1	874.7	903.8
65°	609.0	640.0	727.3	806.8	837.9
67.5°	531.4	566.3	657.5	740.9	773.9
70°	453.8	494.6	591.6	676.9	709.9
72.5°	378.2	422.8	525.6	611.0	628.4
75°	304.5	356.9	463.5	504.3	500.4
77.5°	234.7	292.9	393.7	401.5	413.1
80°	170.7	234.7	294.8	310.3	302.6
82.5°	112.5	176.5	211.4	203.7	201.7
85°	64.0	110.6	118.3	108.6	108.6
87.5°	27.2	44.6	38.8	29.1	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)