

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: P261173

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261173  
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-5500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5886.0 lumens  
Efficiency: N/A  
Efficacy: 142.9 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

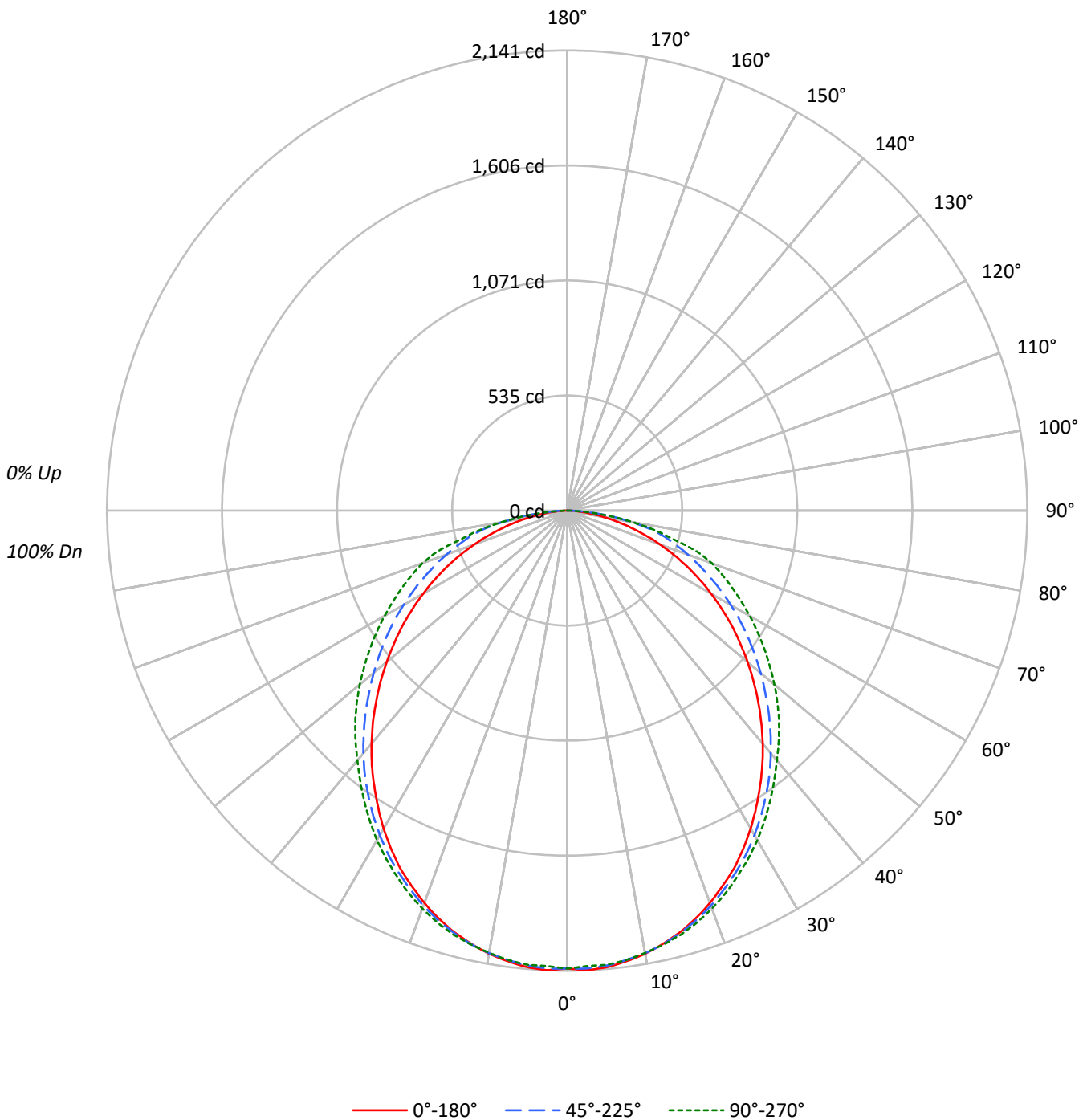
Input Watts (W): 41.199  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2867	2867	2867
5°	2881	2870	2865
10°	2860	2858	2855
15°	2829	2835	2845
20°	2782	2801	2821
25°	2727	2756	2785
30°	2653	2708	2751
35°	2570	2651	2705
40°	2487	2590	2666
45°	2393	2523	2653
50°	2296	2460	2636
55°	2196	2407	2628
60°	2082	2366	2640
65°	1958	2338	2694
70°	1803	2350	2820
75°	1599	2433	2627
80°	1335	2307	2367
85°	997	1845	1694



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	201.5	3.4
10°-20°	573.0	9.7
20°-30°	853.9	14.5
30°-40°	1005.1	17.1
40°-50°	1021.4	17.4
50°-60°	918.4	15.6
60°-70°	725.5	12.3
70°-80°	460.3	7.8
80°-90°	127.0	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°	1628.3	27.7
0°-40°	2633.4	44.7
0°-60°	4573.2	77.7
0°-90°	5886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5886.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2131	2131	2131	2131	2131	
5°	2133	2115	2125	2121	2121	202
15°	2031	2021	2035	2041	2043	572
25°	1837	1835	1857	1868	1876	845
35°	1565	1575	1614	1631	1647	979
45°	1257	1275	1326	1365	1394	970
55°	936	960	1026	1093	1120	836
65°	615	646	734	815	846	609
75°	308	360	468	509	505	327
85°	65	112	120	110	110	79
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2130.8	2130.8	2130.8	2130.8	2130.8
2.5°	2140.6	2125.0	2132.8	2128.9	2121.0
5°	2132.8	2115.2	2125.0	2121.0	2121.0
7.5°	2115.2	2101.5	2109.3	2107.3	2109.3
10°	2093.6	2079.9	2091.7	2091.7	2089.7
12.5°	2064.3	2052.5	2066.2	2066.2	2068.2
15°	2031.0	2021.2	2034.9	2040.7	2042.7
17.5°	1989.8	1980.0	1997.7	2003.5	2009.4
20°	1942.8	1938.9	1956.5	1962.4	1970.2
22.5°	1889.9	1889.9	1907.6	1915.4	1927.2
25°	1837.1	1835.1	1856.7	1868.4	1876.2
27.5°	1774.4	1776.4	1803.8	1815.5	1825.3
30°	1707.8	1711.7	1743.1	1756.8	1770.5
32.5°	1637.3	1645.1	1680.4	1696.1	1709.8
35°	1564.8	1574.6	1613.8	1631.4	1647.1
37.5°	1492.4	1506.1	1547.2	1564.8	1582.5
40°	1416.0	1427.7	1474.7	1496.3	1517.8
42.5°	1337.7	1353.3	1400.3	1431.7	1457.1
45°	1257.4	1275.0	1325.9	1365.1	1394.4
47.5°	1177.1	1200.6	1249.5	1302.4	1327.9
50°	1096.8	1120.3	1175.1	1233.9	1259.3
52.5°	1014.5	1038.0	1100.7	1161.4	1188.8
55°	936.2	959.7	1026.3	1092.8	1120.3
57.5°	853.9	879.4	953.8	1022.3	1049.8
60°	773.6	799.1	879.4	951.8	981.2
62.5°	695.3	722.7	806.9	883.3	912.7
65°	615.0	646.3	734.4	814.7	846.1
67.5°	536.6	571.9	663.9	748.1	781.4
70°	458.3	499.4	597.3	683.5	716.8
72.5°	381.9	427.0	530.8	616.9	634.6
75°	307.5	360.4	468.1	509.2	505.3
77.5°	237.0	295.7	397.6	405.4	417.2
80°	172.3	237.0	297.7	313.4	305.5
82.5°	113.6	178.2	213.5	205.6	203.7
85°	64.6	111.6	119.5	109.7	109.7
87.5°	27.4	45.0	39.2	29.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)