

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: P263828

Luminaire Tested: **24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263828
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-55-RDP-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3621.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

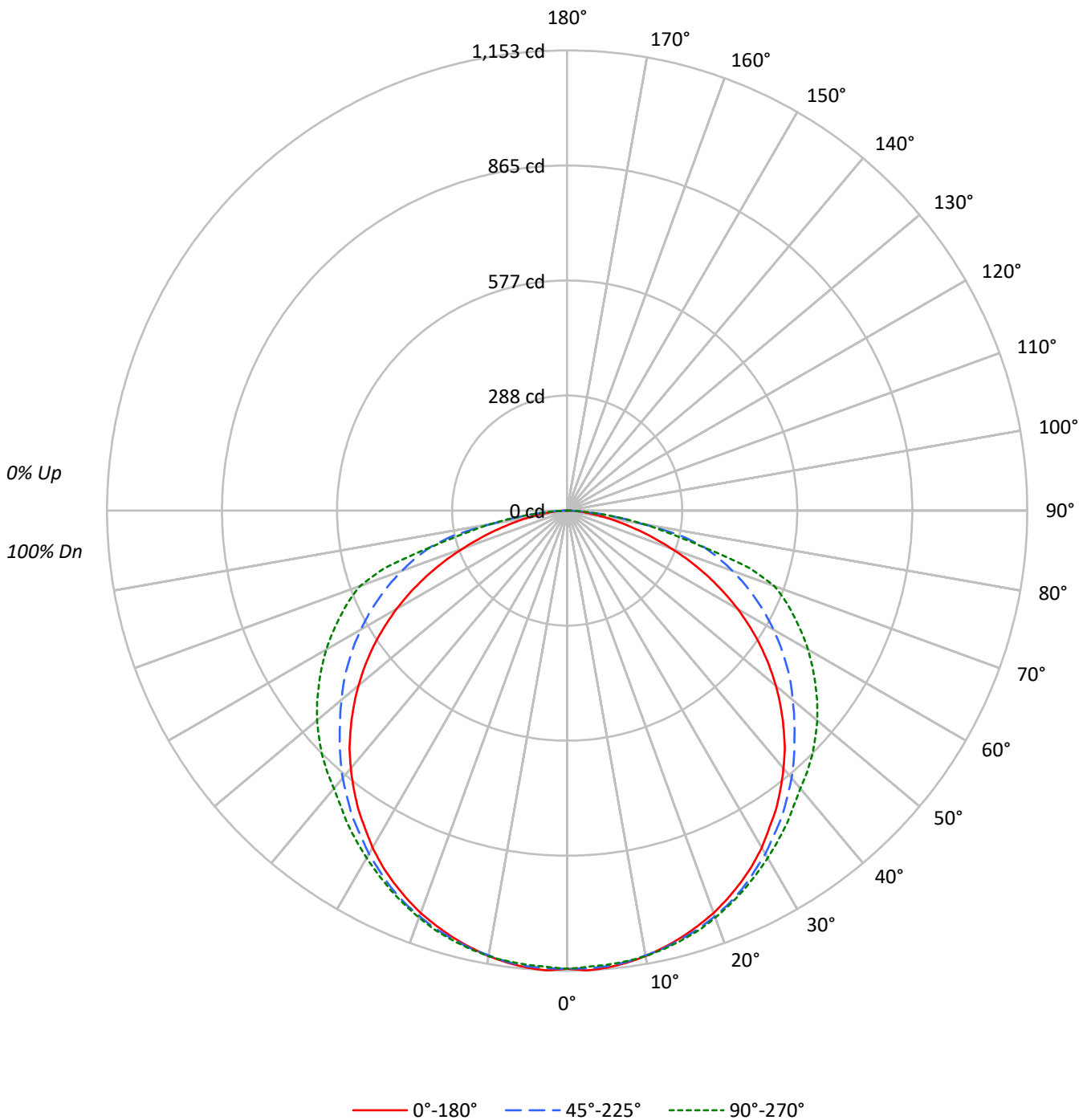
Input Watts (W): 41.199
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1544	1544	1544
5°	1553	1548	1543
10°	1549	1546	1549
15°	1542	1547	1552
20°	1536	1549	1554
25°	1527	1548	1556
30°	1515	1542	1562
35°	1499	1540	1575
40°	1481	1537	1597
45°	1458	1533	1652
50°	1429	1545	1712
55°	1388	1572	1781
60°	1329	1607	1875
65°	1237	1657	1997
70°	1094	1732	2174
75°	918	1853	1825
80°	732	1464	1519
85°	577	991	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	3.0
10°-20°	313.3	8.7
20°-30°	478.6	13.2
30°-40°	585.1	16.2
40°-50°	626.3	17.3
50°-60°	600.7	16.6
60°-70°	507.2	14.0
70°-80°	324.2	9.0
80°-90°	76.7	2.1
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°	900.8	24.9
0°-40°	1485.9	41.0
0°-60°	2712.9	74.9
0°-90°	3621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3621.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1150	1142	1146	1144	1142	109
15°	1107	1103	1110	1114	1114	313
25°	1028	1027	1043	1046	1048	474
35°	913	920	938	950	959	571
45°	766	779	806	843	868	591
55°	592	611	670	731	759	528
65°	389	426	520	594	627	383
75°	176	251	356	364	351	190
85°	37	62	64	62	59	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.9	1147.9	1147.9	1147.9	1147.9
2.5°	1153.2	1146.1	1147.9	1147.9	1144.3
5°	1149.7	1142.5	1146.1	1144.3	1142.5
7.5°	1142.5	1137.2	1140.8	1140.8	1139.0
10°	1133.6	1128.3	1131.8	1133.6	1133.6
12.5°	1121.2	1117.6	1122.9	1122.9	1124.7
15°	1106.9	1103.3	1110.5	1114.0	1114.0
17.5°	1090.8	1089.1	1098.0	1099.8	1101.5
20°	1073.0	1071.2	1081.9	1081.9	1085.5
22.5°	1051.6	1049.9	1064.1	1064.1	1067.7
25°	1028.5	1026.7	1042.7	1046.3	1048.1
27.5°	1003.5	1001.7	1017.8	1023.1	1026.7
30°	975.0	975.0	992.8	999.9	1005.3
32.5°	942.9	948.3	964.3	975.0	982.1
35°	912.6	919.7	937.6	950.0	958.9
37.5°	878.7	885.9	905.5	921.5	932.2
40°	843.1	852.0	875.2	893.0	909.0
42.5°	807.4	816.4	841.3	868.0	889.4
45°	766.4	778.9	805.7	843.1	868.0
47.5°	725.5	737.9	771.8	818.1	843.1
50°	682.7	696.9	737.9	791.4	818.1
52.5°	638.1	654.2	705.8	762.9	789.6
55°	591.8	611.4	670.2	730.8	759.3
57.5°	543.6	565.0	634.5	698.7	729.0
60°	493.7	520.5	597.1	664.8	696.9
62.5°	442.0	474.1	559.7	629.2	663.1
65°	388.6	426.0	520.5	593.6	627.4
67.5°	333.3	383.2	481.3	557.9	591.8
70°	278.1	336.9	440.3	518.7	552.6
72.5°	226.4	294.1	399.3	472.3	479.5
75°	176.5	251.3	356.5	363.6	351.1
77.5°	131.9	208.5	294.1	262.0	260.2
80°	94.5	167.5	188.9	194.3	196.1
82.5°	62.4	126.6	123.0	126.6	124.8
85°	37.4	62.4	64.2	62.4	58.8
87.5°	17.8	23.2	17.8	16.0	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)