

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: P261141

Luminaire Tested: **24CZ-LD5-40-S-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261141
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-LD5-40-S-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3922.0 lumens
Efficiency: N/A
Efficacy: 139.6 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

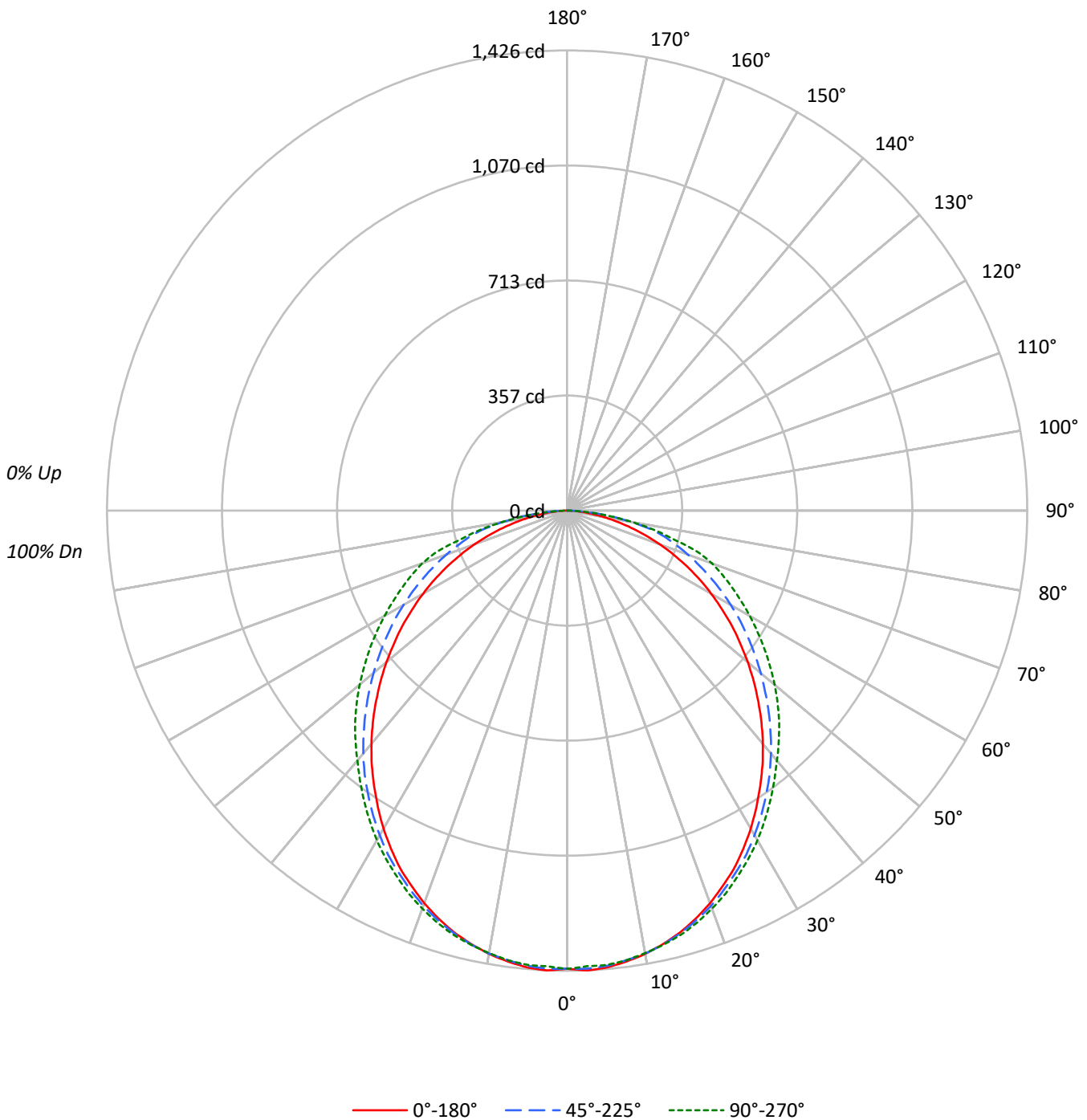
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1910	1910	1910
5°	1919	1912	1909
10°	1906	1904	1902
15°	1885	1889	1896
20°	1854	1867	1880
25°	1817	1837	1856
30°	1768	1804	1833
35°	1713	1766	1803
40°	1657	1726	1776
45°	1594	1681	1768
50°	1530	1639	1756
55°	1463	1604	1751
60°	1387	1577	1759
65°	1305	1558	1795
70°	1201	1566	1879
75°	1065	1621	1750
80°	890	1537	1578
85°	665	1229	1129



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.2	3.4
10°-20°	381.8	9.7
20°-30°	569.0	14.5
30°-40°	669.7	17.1
40°-50°	680.6	17.4
50°-60°	611.9	15.6
60°-70°	483.4	12.3
70°-80°	306.7	7.8
80°-90°	84.6	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°	1085.0	27.7
0°-40°	1754.7	44.7
0°-60°	3047.2	77.7
0°-90°	3922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1420	1420	1420	1420	1420	
5°	1421	1409	1416	1413	1413	135
15°	1353	1347	1356	1360	1361	381
25°	1224	1223	1237	1245	1250	563
35°	1043	1049	1075	1087	1098	652
45°	838	850	884	910	929	646
55°	624	639	684	728	746	557
65°	410	431	489	543	564	406
75°	205	240	312	339	337	218
85°	43	74	80	73	73	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1419.8	1419.8	1419.8	1419.8	1419.8
2.5°	1426.4	1415.9	1421.1	1418.5	1413.3
5°	1421.1	1409.4	1415.9	1413.3	1413.3
7.5°	1409.4	1400.3	1405.5	1404.2	1405.5
10°	1395.0	1385.9	1393.7	1393.7	1392.4
12.5°	1375.5	1367.6	1376.8	1376.8	1378.1
15°	1353.3	1346.8	1355.9	1359.8	1361.1
17.5°	1325.9	1319.4	1331.1	1335.0	1338.9
20°	1294.6	1291.9	1303.7	1307.6	1312.8
22.5°	1259.3	1259.3	1271.1	1276.3	1284.1
25°	1224.1	1222.8	1237.1	1245.0	1250.2
27.5°	1182.3	1183.6	1201.9	1209.7	1216.3
30°	1138.0	1140.6	1161.4	1170.6	1179.7
32.5°	1091.0	1096.2	1119.7	1130.1	1139.3
35°	1042.7	1049.2	1075.3	1087.1	1097.5
37.5°	994.4	1003.5	1030.9	1042.7	1054.4
40°	943.5	951.3	982.7	997.0	1011.4
42.5°	891.3	901.8	933.1	954.0	970.9
45°	837.8	849.6	883.5	909.6	929.2
47.5°	784.3	800.0	832.6	867.8	884.8
50°	730.8	746.5	783.0	822.1	839.1
52.5°	676.0	691.6	733.4	773.9	792.1
55°	623.8	639.4	683.8	728.2	746.5
57.5°	569.0	585.9	635.5	681.2	699.5
60°	515.5	532.4	585.9	634.2	653.8
62.5°	463.3	481.5	537.7	588.6	608.1
65°	409.8	430.6	489.4	542.9	563.8
67.5°	357.6	381.1	442.4	498.5	520.7
70°	305.4	332.8	398.0	455.4	477.6
72.5°	254.5	284.5	353.7	411.1	422.8
75°	204.9	240.1	311.9	339.3	336.7
77.5°	157.9	197.1	264.9	270.1	278.0
80°	114.8	157.9	198.4	208.8	203.6
82.5°	75.7	118.8	142.2	137.0	135.7
85°	43.1	74.4	79.6	73.1	73.1
87.5°	18.3	30.0	26.1	19.6	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)