

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: P263698

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263698
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-LD5-60-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4094.0 lumens
Efficiency: N/A
Efficacy: 92.1 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

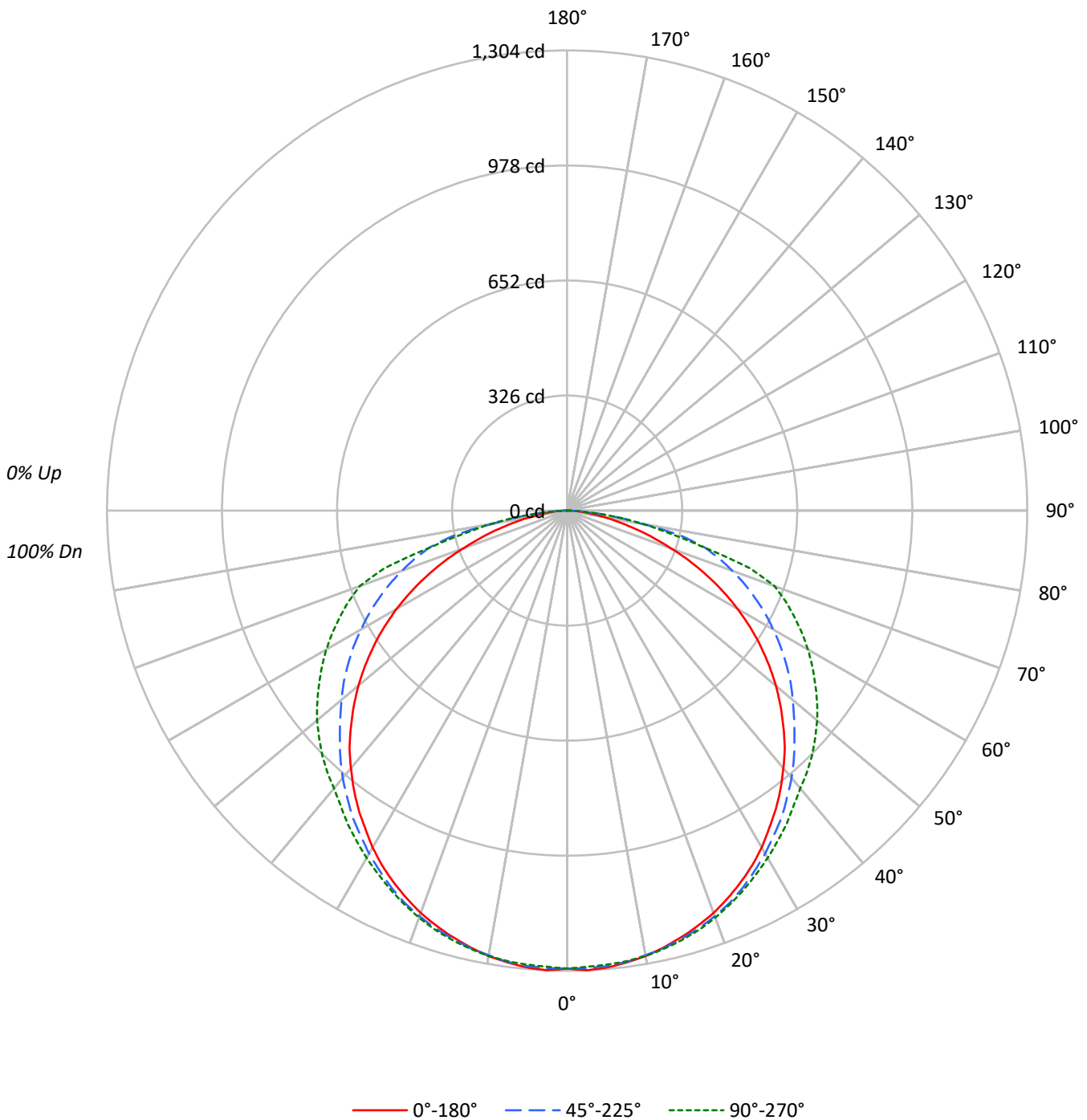
Input Watts (W): 44.454
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1746	1746	1746
5°	1756	1750	1745
10°	1751	1748	1751
15°	1743	1749	1754
20°	1737	1752	1757
25°	1726	1750	1759
30°	1713	1744	1766
35°	1695	1741	1781
40°	1674	1738	1805
45°	1649	1733	1867
50°	1616	1746	1936
55°	1570	1777	2014
60°	1502	1817	2120
65°	1399	1874	2259
70°	1237	1958	2458
75°	1037	2096	2064
80°	828	1655	1718
85°	653	1119	1027



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	3.0
10°-20°	354.3	8.7
20°-30°	541.1	13.2
30°-40°	661.5	16.2
40°-50°	708.1	17.3
50°-60°	679.2	16.6
60°-70°	573.5	14.0
70°-80°	366.5	9.0
80°-90°	86.7	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°	1018.5	24.9
0°-40°	1680.0	41.0
0°-60°	3067.3	74.9
0°-90°	4094.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4094.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1300	1292	1296	1294	1292	123
15°	1252	1248	1256	1260	1260	353
25°	1163	1161	1179	1183	1185	536
35°	1032	1040	1060	1074	1084	645
45°	867	881	911	953	981	668
55°	669	691	758	826	858	597
65°	439	482	588	671	709	433
75°	200	284	403	411	397	215
85°	42	70	72	70	66	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.8	1297.8	1297.8	1297.8	1297.8
2.5°	1303.9	1295.8	1297.8	1297.8	1293.8
5°	1299.8	1291.8	1295.8	1293.8	1291.8
7.5°	1291.8	1285.7	1289.8	1289.8	1287.8
10°	1281.7	1275.7	1279.7	1281.7	1281.7
12.5°	1267.6	1263.6	1269.6	1269.6	1271.6
15°	1251.5	1247.5	1255.5	1259.5	1259.5
17.5°	1233.3	1231.3	1241.4	1243.4	1245.4
20°	1213.2	1211.2	1223.3	1223.3	1227.3
22.5°	1189.0	1187.0	1203.1	1203.1	1207.1
25°	1162.8	1160.8	1178.9	1183.0	1185.0
27.5°	1134.6	1132.6	1150.7	1156.8	1160.8
30°	1102.4	1102.4	1122.5	1130.6	1136.6
32.5°	1066.1	1072.1	1090.3	1102.4	1110.4
35°	1031.8	1039.9	1060.0	1074.1	1084.2
37.5°	993.5	1001.6	1023.8	1041.9	1054.0
40°	953.2	963.3	989.5	1009.6	1027.8
42.5°	912.9	923.0	951.2	981.4	1005.6
45°	866.6	880.7	910.9	953.2	981.4
47.5°	820.2	834.3	872.6	925.0	953.2
50°	771.8	788.0	834.3	894.8	925.0
52.5°	721.5	739.6	798.0	862.5	892.8
55°	669.1	691.2	757.7	826.3	858.5
57.5°	614.7	638.8	717.4	790.0	824.2
60°	558.2	588.5	675.1	751.7	788.0
62.5°	499.8	536.1	632.8	711.4	749.7
65°	439.3	481.6	588.5	671.1	709.4
67.5°	376.9	433.3	544.1	630.8	669.1
70°	314.4	380.9	497.8	586.4	624.7
72.5°	255.9	332.5	451.4	534.0	542.1
75°	199.5	284.2	403.1	411.1	397.0
77.5°	149.1	235.8	332.5	296.2	294.2
80°	106.8	189.4	213.6	219.7	221.7
82.5°	70.5	143.1	139.1	143.1	141.1
85°	42.3	70.5	72.5	70.5	66.5
87.5°	20.2	26.2	20.2	18.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)