

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: P276293

Luminaire Tested: **24CZ2-40-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-40-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3634.5 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

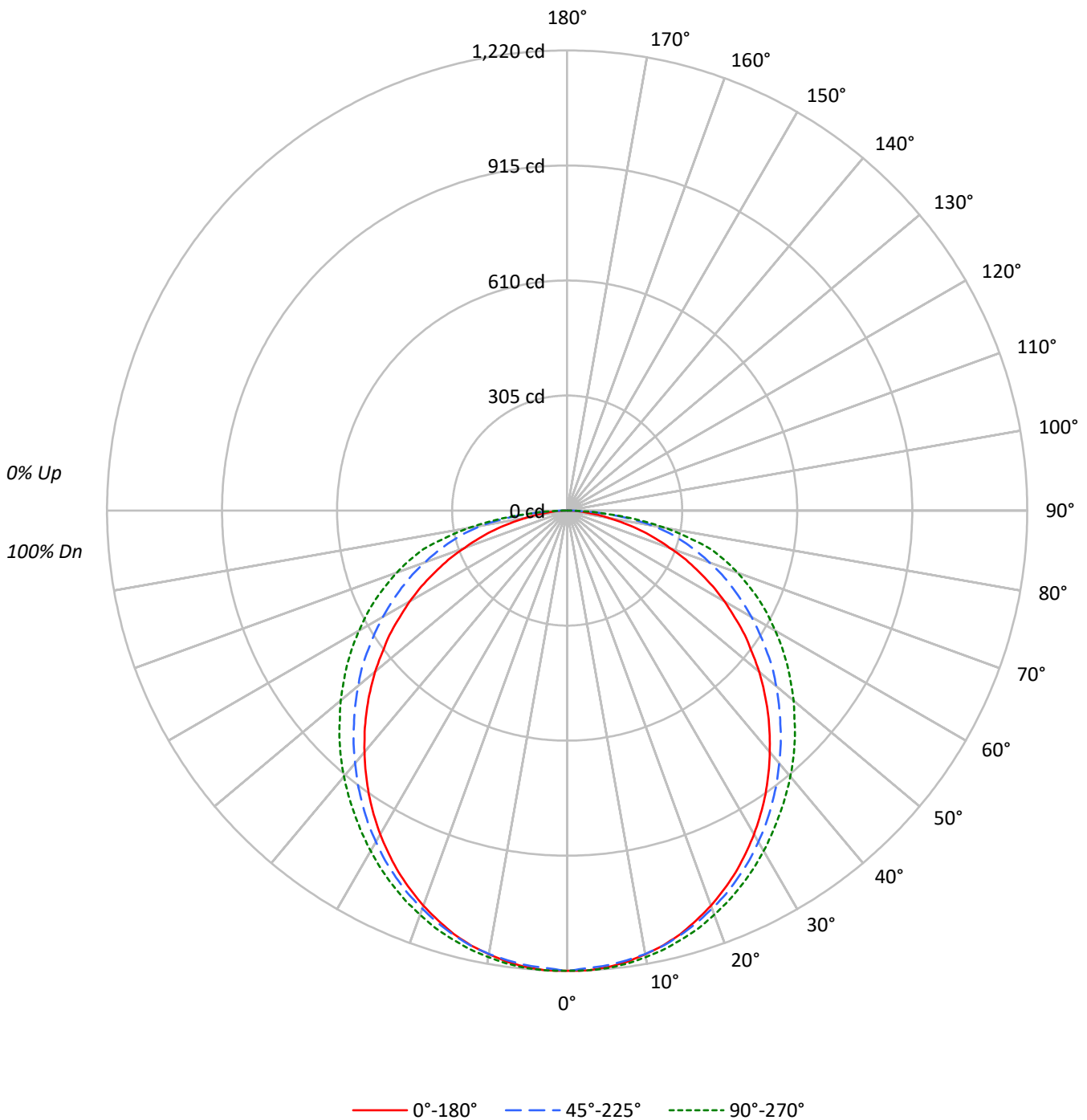
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	89	86	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	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1642	1642	1642
5°	1642	1635	1645
10°	1632	1631	1642
15°	1619	1622	1639
20°	1596	1608	1633
25°	1570	1594	1626
30°	1540	1576	1619
35°	1506	1556	1614
40°	1468	1536	1617
45°	1431	1521	1625
50°	1391	1513	1640
55°	1349	1511	1670
60°	1296	1518	1714
65°	1228	1541	1788
70°	1140	1579	1889
75°	1040	1658	2049
80°	855	1786	2049
85°	656	1647	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.4	3.2
10°-20°	329.5	9.1
20°-30°	495.8	13.6
30°-40°	594.2	16.3
40°-50°	619.2	17.0
50°-60°	576.1	15.9
60°-70°	474.5	13.1
70°-80°	323.1	8.9
80°-90°	106.7	2.9
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°	940.7	25.9
0°-40°	1534.9	42.2
0°-60°	2730.2	75.1
0°-90°	3634.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3634.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1215	1215	1211	1217	1218	115
15°	1162	1163	1164	1175	1177	327
25°	1058	1063	1074	1092	1095	487
35°	917	928	947	973	982	573
45°	752	768	799	839	854	580
55°	575	594	644	695	712	512
65°	386	418	484	541	562	383
75°	200	245	319	376	394	211
85°	42	82	107	114	114	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1220.3	1220.3	1220.3	1220.3	1220.3
2.5°	1220.3	1220.3	1214.2	1220.3	1220.3
5°	1215.4	1215.4	1210.6	1216.6	1217.9
7.5°	1206.9	1208.2	1203.3	1210.6	1211.8
10°	1194.8	1196.0	1193.6	1200.9	1202.1
12.5°	1180.3	1181.5	1181.5	1190.0	1191.2
15°	1162.1	1163.3	1164.5	1175.4	1176.6
17.5°	1139.0	1142.6	1145.1	1158.4	1160.8
20°	1114.8	1118.4	1123.2	1137.8	1140.2
22.5°	1086.9	1091.7	1100.2	1116.0	1119.6
25°	1057.7	1062.6	1073.5	1091.7	1095.3
27.5°	1025.0	1032.3	1045.6	1065.0	1069.9
30°	991.0	998.3	1014.1	1034.7	1042.0
32.5°	954.6	964.3	982.5	1005.6	1012.9
35°	917.0	927.9	947.4	972.8	982.5
37.5°	877.0	889.1	912.2	940.1	952.2
40°	835.8	850.3	874.6	907.3	920.7
42.5°	794.5	807.9	838.2	873.4	887.9
45°	752.1	767.8	799.4	839.4	854.0
47.5°	708.4	724.2	761.8	804.2	817.6
50°	664.7	680.5	723.0	767.8	783.6
52.5°	617.4	638.0	686.6	731.4	747.2
55°	575.0	594.4	644.1	695.1	712.0
57.5°	526.4	549.5	604.1	657.4	675.6
60°	481.6	505.8	564.0	618.6	636.8
62.5°	435.5	462.2	524.0	579.8	600.4
65°	385.7	418.5	484.0	541.0	561.6
67.5°	340.9	374.8	444.0	502.2	520.4
70°	289.9	331.1	401.5	459.7	480.3
72.5°	246.2	287.5	361.5	418.5	439.1
75°	200.1	245.0	319.0	376.0	394.2
77.5°	154.1	203.8	277.8	321.4	327.5
80°	110.4	162.5	230.5	255.9	264.4
82.5°	77.6	124.9	169.8	186.8	191.7
85°	42.5	82.5	106.7	114.0	114.0
87.5°	18.2	35.2	42.5	43.7	44.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)