

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: P276203

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276203
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: 24CZ2-40HE-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3657.2 lumens
Efficiency: N/A
Efficacy: 123.7 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

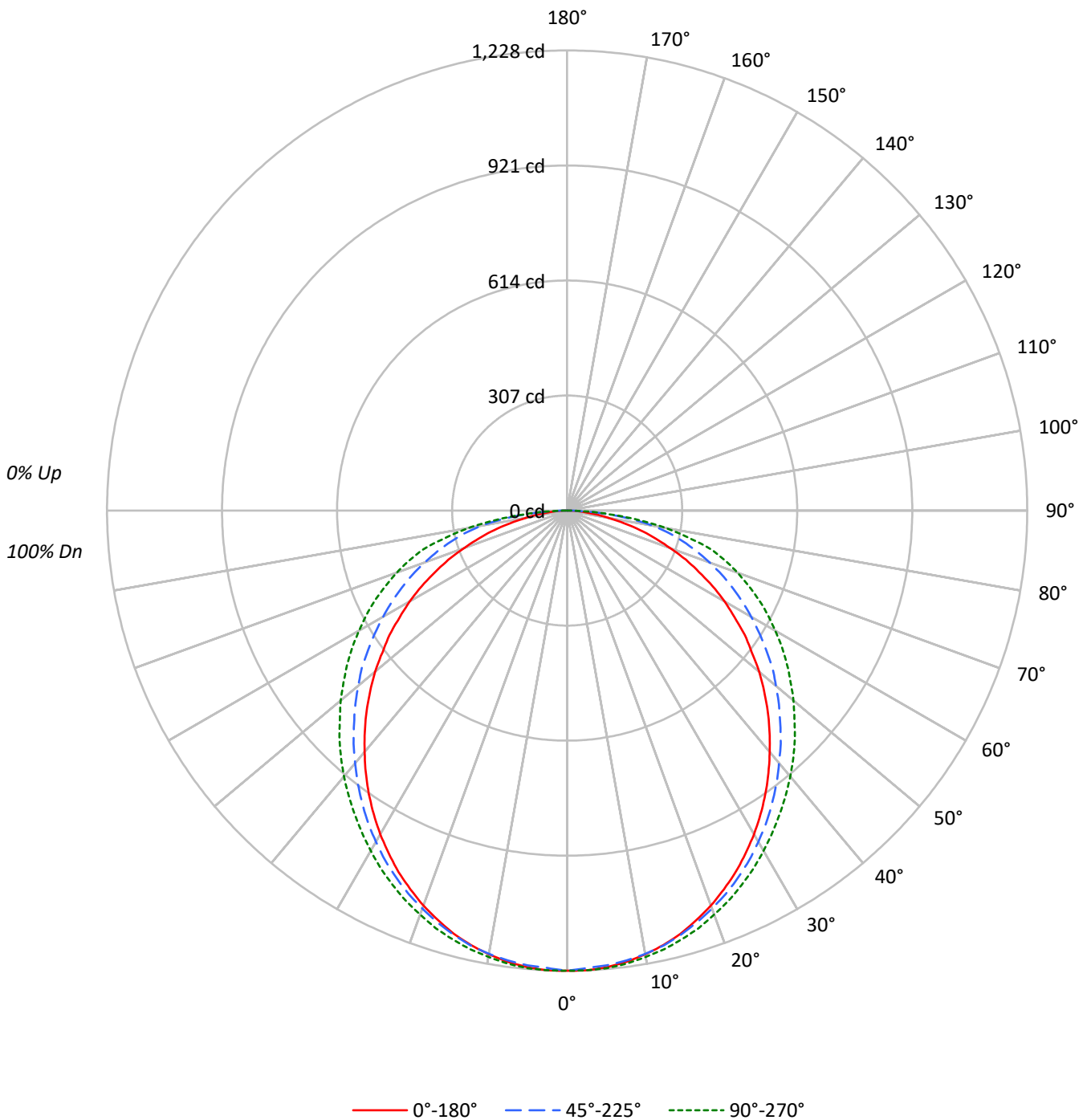
Input Watts (W): 29.574
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1652	1652	1652
5°	1652	1645	1655
10°	1643	1641	1653
15°	1629	1632	1649
20°	1606	1618	1643
25°	1580	1604	1636
30°	1549	1585	1629
35°	1516	1566	1624
40°	1477	1546	1627
45°	1440	1531	1635
50°	1400	1523	1650
55°	1357	1520	1681
60°	1304	1527	1724
65°	1236	1550	1799
70°	1148	1589	1901
75°	1047	1669	2062
80°	861	1797	2062
85°	659	1658	1771



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.1	3.2
10°-20°	331.5	9.1
20°-30°	498.9	13.6
30°-40°	597.9	16.3
40°-50°	623.1	17.0
50°-60°	579.7	15.9
60°-70°	477.4	13.1
70°-80°	325.2	8.9
80°-90°	107.3	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°	946.6	25.9
0°-40°	1544.5	42.2
0°-60°	2747.3	75.1
0°-90°	3657.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3657.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1228	1228	1228	1228	1228	
5°	1223	1223	1218	1224	1226	116
15°	1169	1170	1172	1183	1184	329
25°	1064	1069	1080	1098	1102	490
35°	923	934	953	979	989	577
45°	757	773	804	845	859	584
55°	579	598	648	699	716	516
65°	388	421	487	544	565	385
75°	201	247	321	378	397	212
85°	43	83	107	115	115	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1227.9	1227.9	1227.9	1227.9	1227.9
2.5°	1227.9	1227.9	1221.8	1227.9	1227.9
5°	1223.0	1223.0	1218.1	1224.2	1225.5
7.5°	1214.5	1215.7	1210.8	1218.1	1219.4
10°	1202.3	1203.5	1201.1	1208.4	1209.6
12.5°	1187.6	1188.8	1188.8	1197.4	1198.6
15°	1169.3	1170.5	1171.8	1182.7	1184.0
17.5°	1146.1	1149.8	1152.2	1165.7	1168.1
20°	1121.7	1125.4	1130.3	1144.9	1147.3
22.5°	1093.6	1098.5	1107.1	1122.9	1126.6
25°	1064.3	1069.2	1080.2	1098.5	1102.2
27.5°	1031.4	1038.7	1052.1	1071.7	1076.6
30°	997.2	1004.5	1020.4	1041.2	1048.5
32.5°	960.6	970.4	988.7	1011.9	1019.2
35°	922.8	933.7	953.3	978.9	988.7
37.5°	882.5	894.7	917.9	946.0	958.2
40°	841.0	855.6	880.0	913.0	926.4
42.5°	799.5	812.9	843.4	878.8	893.5
45°	756.8	772.6	804.4	844.6	859.3
47.5°	712.8	728.7	766.5	809.2	822.7
50°	668.9	684.7	727.5	772.6	788.5
52.5°	621.3	642.0	690.8	736.0	751.9
55°	578.6	598.1	648.1	699.4	716.5
57.5°	529.7	552.9	607.8	661.6	679.9
60°	484.6	509.0	567.6	622.5	640.8
62.5°	438.2	465.0	527.3	583.4	604.2
65°	388.1	421.1	487.0	544.4	565.1
67.5°	343.0	377.2	446.7	505.3	523.6
70°	291.7	333.2	404.0	462.6	483.3
72.5°	247.8	289.3	363.7	421.1	441.9
75°	201.4	246.6	321.0	378.4	396.7
77.5°	155.0	205.1	279.5	323.5	329.6
80°	111.1	163.6	231.9	257.5	266.1
82.5°	78.1	125.7	170.9	188.0	192.9
85°	42.7	83.0	107.4	114.7	114.7
87.5°	18.3	35.4	42.7	43.9	45.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)