

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: P275977

Luminaire Tested: **24CZ2-40HE-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275977
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-L93050-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2997.7 lumens
Efficiency: N/A
Efficacy: 103.6 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

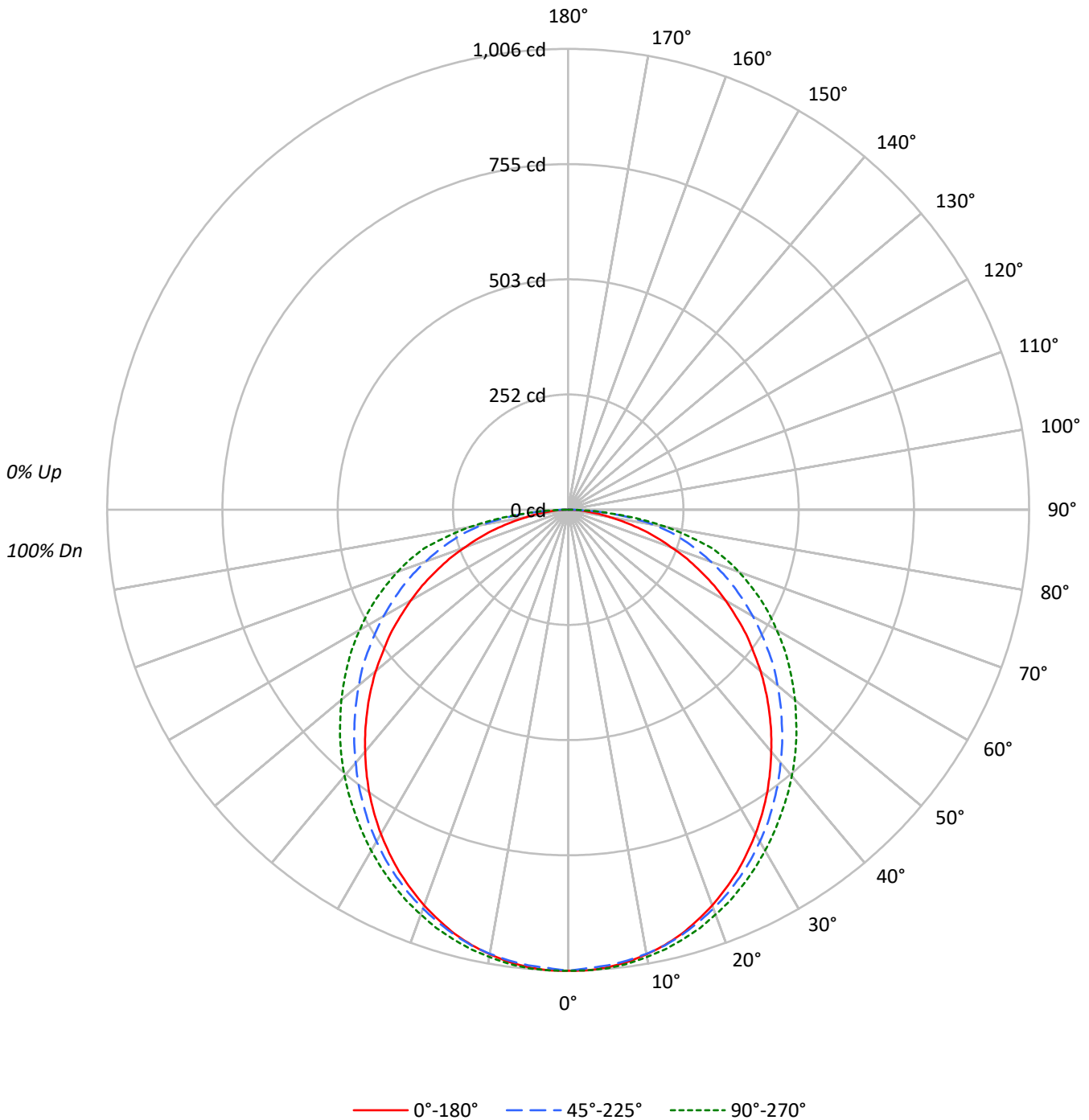
Input Watts (W): 28.922256
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1354	1354	1354
5°	1354	1349	1357
10°	1346	1345	1355
15°	1335	1338	1352
20°	1316	1326	1347
25°	1295	1314	1341
30°	1270	1299	1335
35°	1242	1283	1331
40°	1211	1267	1334
45°	1180	1255	1340
50°	1148	1248	1353
55°	1112	1246	1378
60°	1069	1252	1413
65°	1013	1271	1475
70°	941	1303	1559
75°	858	1368	1690
80°	705	1473	1690
85°	540	1359	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.2
10°-20°	271.7	9.1
20°-30°	408.9	13.6
30°-40°	490.1	16.3
40°-50°	510.7	17.0
50°-60°	475.2	15.9
60°-70°	391.3	13.1
70°-80°	266.5	8.9
80°-90°	88.0	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°	775.9	25.9
0°-40°	1266.0	42.2
0°-60°	2251.8	75.1
0°-90°	2997.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1002	1002	998	1004	1004	95
15°	958	959	960	969	970	270
25°	872	876	885	900	903	402
35°	756	765	781	802	810	473
45°	620	633	659	692	704	478
55°	474	490	531	573	587	423
65°	318	345	399	446	463	316
75°	165	202	263	310	325	174
85°	35	68	88	94	94	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1006.5	1006.5	1006.5	1006.5	1006.5
2.5°	1006.5	1006.5	1001.5	1006.5	1006.5
5°	1002.5	1002.5	998.5	1003.5	1004.5
7.5°	995.5	996.5	992.5	998.5	999.5
10°	985.5	986.5	984.5	990.5	991.5
12.5°	973.4	974.4	974.4	981.4	982.4
15°	958.4	959.4	960.4	969.4	970.4
17.5°	939.4	942.4	944.4	955.4	957.4
20°	919.4	922.4	926.4	938.4	940.4
22.5°	896.4	900.4	907.4	920.4	923.4
25°	872.4	876.4	885.4	900.4	903.4
27.5°	845.4	851.4	862.4	878.4	882.4
30°	817.4	823.4	836.4	853.4	859.4
32.5°	787.4	795.4	810.4	829.4	835.4
35°	756.3	765.4	781.4	802.4	810.4
37.5°	723.3	733.3	752.3	775.4	785.4
40°	689.3	701.3	721.3	748.3	759.3
42.5°	655.3	666.3	691.3	720.3	732.3
45°	620.3	633.3	659.3	692.3	704.3
47.5°	584.3	597.3	628.3	663.3	674.3
50°	548.3	561.3	596.3	633.3	646.3
52.5°	509.2	526.2	566.3	603.3	616.3
55°	474.2	490.2	531.2	573.3	587.3
57.5°	434.2	453.2	498.2	542.2	557.3
60°	397.2	417.2	465.2	510.2	525.2
62.5°	359.2	381.2	432.2	478.2	495.2
65°	318.1	345.2	399.2	446.2	463.2
67.5°	281.1	309.1	366.2	414.2	429.2
70°	239.1	273.1	331.2	379.2	396.2
72.5°	203.1	237.1	298.1	345.2	362.2
75°	165.1	202.1	263.1	310.1	325.1
77.5°	127.1	168.1	229.1	265.1	270.1
80°	91.0	134.1	190.1	211.1	218.1
82.5°	64.0	103.0	140.1	154.1	158.1
85°	35.0	68.0	88.0	94.0	94.0
87.5°	15.0	29.0	35.0	36.0	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)