

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: P276285

Luminaire Tested: **24CZ2-40-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276285
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-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3000.7 lumens
Efficiency: N/A
Efficacy: 99.0 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

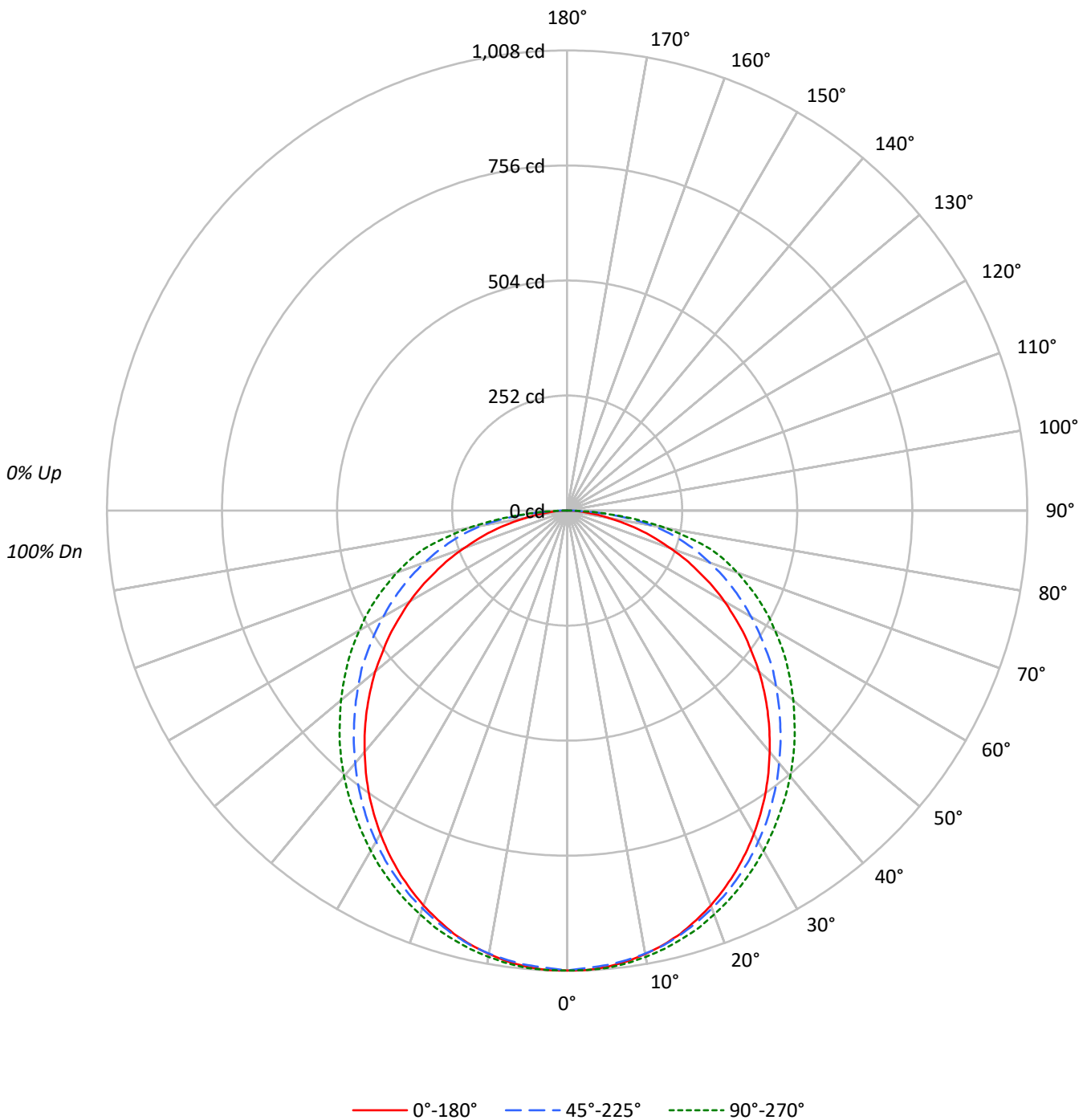
Input Watts (W): 30.318
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1356	1356	1356
5°	1355	1350	1358
10°	1348	1346	1356
15°	1336	1339	1353
20°	1318	1328	1348
25°	1296	1316	1343
30°	1271	1301	1337
35°	1244	1285	1332
40°	1212	1268	1335
45°	1181	1256	1341
50°	1149	1249	1354
55°	1114	1247	1379
60°	1070	1253	1415
65°	1014	1272	1476
70°	942	1304	1560
75°	859	1369	1692
80°	706	1475	1691
85°	542	1360	1453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	3.2
10°-20°	272.0	9.1
20°-30°	409.4	13.6
30°-40°	490.6	16.3
40°-50°	511.2	17.0
50°-60°	475.6	15.9
60°-70°	391.7	13.1
70°-80°	266.8	8.9
80°-90°	88.1	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°	776.7	25.9
0°-40°	1267.2	42.2
0°-60°	2254.1	75.1
0°-90°	3000.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3000.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1004	1004	1000	1004	1006	95
15°	959	960	961	970	971	270
25°	873	877	886	901	904	402
35°	757	766	782	803	811	473
45°	621	634	660	693	705	479
55°	475	491	532	574	588	423
65°	318	346	400	447	464	316
75°	165	202	263	310	326	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°	1007.5	1007.5	1007.5	1007.5	1007.5
2.5°	1007.5	1007.5	1002.5	1007.5	1007.5
5°	1003.5	1003.5	999.5	1004.5	1005.5
7.5°	996.5	997.5	993.5	999.5	1000.5
10°	986.4	987.4	985.4	991.5	992.5
12.5°	974.4	975.4	975.4	982.4	983.4
15°	959.4	960.4	961.4	970.4	971.4
17.5°	940.4	943.4	945.4	956.4	958.4
20°	920.4	923.4	927.4	939.4	941.4
22.5°	897.3	901.3	908.3	921.4	924.4
25°	873.3	877.3	886.3	901.3	904.3
27.5°	846.2	852.3	863.3	879.3	883.3
30°	818.2	824.2	837.2	854.3	860.3
32.5°	788.2	796.2	811.2	830.2	836.2
35°	757.1	766.1	782.1	803.2	811.2
37.5°	724.1	734.1	753.1	776.1	786.2
40°	690.0	702.0	722.1	749.1	760.1
42.5°	656.0	667.0	692.0	721.1	733.1
45°	620.9	633.9	660.0	693.0	705.0
47.5°	584.9	597.9	628.9	664.0	675.0
50°	548.8	561.8	596.9	633.9	646.9
52.5°	509.7	526.8	566.8	603.9	616.9
55°	474.7	490.7	531.8	573.8	587.9
57.5°	434.6	453.7	498.7	542.8	557.8
60°	397.6	417.6	465.7	510.7	525.8
62.5°	359.5	381.6	432.6	478.7	495.7
65°	318.5	345.5	399.6	446.7	463.7
67.5°	281.4	309.5	366.5	414.6	429.6
70°	239.4	273.4	331.5	379.6	396.6
72.5°	203.3	237.3	298.4	345.5	362.5
75°	165.2	202.3	263.4	310.5	325.5
77.5°	127.2	168.2	229.3	265.4	270.4
80°	91.1	134.2	190.3	211.3	218.3
82.5°	64.1	103.2	140.2	154.2	158.2
85°	35.1	68.1	88.1	94.1	94.1
87.5°	15.0	29.0	35.1	36.1	37.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)