

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: P#

Luminaire Tested: **24CZ-LD5-40SE-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25689)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3783.2 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.35
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

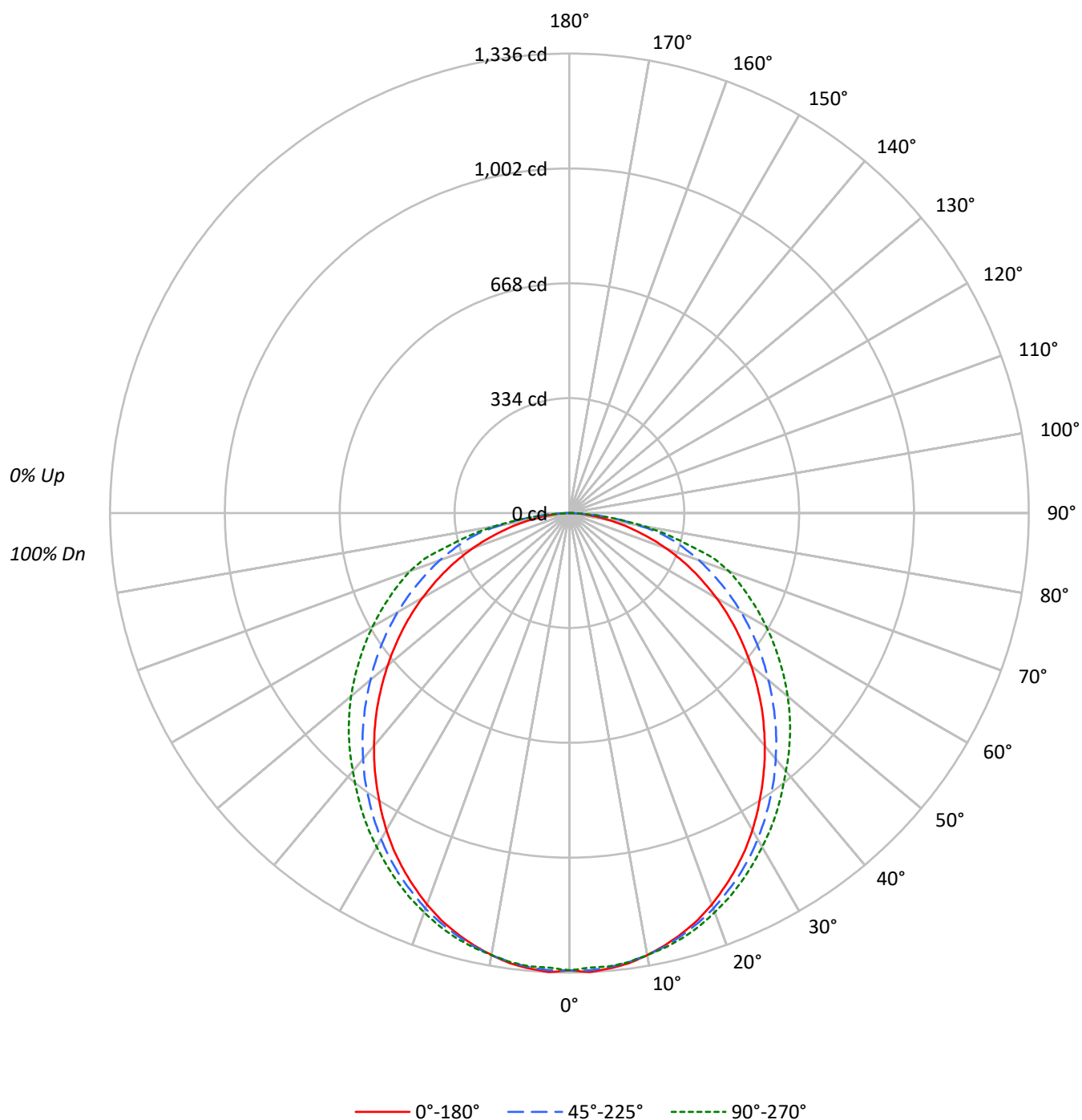
Input Watts (W): 32.55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71
3	89	79	70	63	87	77	69	63	74	67	62	71	65	61	69	64	60
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	56	42	34	28	55	42	34	28	41	33	28	40	33	28	39	32	28
10	52	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1789	1789	1789
5°	1792	1782	1779
10°	1775	1766	1767
15°	1750	1745	1757
20°	1718	1719	1737
25°	1677	1687	1716
30°	1630	1651	1693
35°	1575	1610	1673
40°	1521	1569	1651
45°	1465	1528	1644
50°	1402	1487	1637
55°	1341	1454	1632
60°	1275	1421	1638
65°	1198	1391	1658
70°	1099	1374	1705
75°	961	1368	1568
80°	786	1204	1329
85°	540	779	758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	3.3
10°-20°	357.8	9.5
20°-30°	534.9	14.1
30°-40°	634.3	16.8
40°-50°	652.3	17.2
50°-60°	596.7	15.8
60°-70°	481.2	12.7
70°-80°	312.4	8.3
80°-90°	87.9	2.3
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	26.9
0°-40°	1652.7	43.7
0°-60°	2901.7	76.7
0°-90°	3783.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3783.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1329	1320	1326	1323	1323	126
15°	1265	1259	1270	1275	1278	357
25°	1143	1143	1165	1174	1183	526
35°	976	985	1017	1037	1054	610
45°	789	803	846	884	907	608
55°	592	611	667	719	745	529
65°	396	420	486	550	577	392
75°	202	239	315	354	358	215
85°	45	75	81	80	77	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.4	1329.4	1329.4	1329.4	1329.4
2.5°	1335.9	1325.6	1330.8	1328.2	1323.1
5°	1329.4	1320.5	1325.6	1323.1	1323.1
7.5°	1320.5	1311.5	1316.6	1316.6	1316.6
10°	1305.0	1297.3	1305.0	1305.0	1305.0
12.5°	1287.0	1280.6	1289.5	1290.9	1293.4
15°	1265.1	1258.7	1270.2	1275.4	1277.9
17.5°	1240.7	1235.5	1248.4	1254.9	1258.7
20°	1211.1	1207.2	1223.9	1230.3	1235.5
22.5°	1177.6	1177.6	1194.3	1202.0	1211.1
25°	1142.8	1142.8	1164.7	1173.7	1182.8
27.5°	1105.5	1106.8	1131.3	1144.2	1153.1
30°	1064.4	1069.5	1095.3	1110.6	1121.0
32.5°	1020.6	1027.0	1056.6	1076.0	1088.8
35°	975.6	984.6	1016.7	1037.3	1054.0
37.5°	930.5	942.1	976.8	1000.0	1016.7
40°	884.2	897.0	933.1	960.1	979.4
42.5°	836.6	850.7	890.6	921.5	944.7
45°	789.0	803.1	845.6	884.2	907.3
47.5°	738.7	755.4	800.5	845.6	868.7
50°	689.8	707.8	755.4	804.4	828.8
52.5°	641.0	661.5	711.7	763.2	787.6
55°	592.0	611.3	666.7	719.4	745.2
57.5°	543.1	563.7	621.6	677.0	703.9
60°	494.2	516.0	576.6	634.5	661.5
62.5°	444.0	467.2	531.5	592.0	619.0
65°	396.4	419.5	486.5	549.6	576.6
67.5°	347.5	373.3	442.7	507.1	535.4
70°	298.6	326.9	400.2	464.6	493.0
72.5°	249.7	281.9	356.5	420.8	441.5
75°	202.1	239.4	315.3	354.0	357.8
77.5°	158.3	196.9	268.9	284.4	292.1
80°	115.8	158.3	202.1	221.4	220.1
82.5°	77.2	120.9	145.4	148.0	145.4
85°	45.0	74.7	81.0	79.8	77.2
87.5°	19.3	29.6	25.7	21.8	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)