

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: P276310

Luminaire Tested: **24CZ2-50-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276310
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: 24CZ2-50-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4461.3 lumens
Efficiency: N/A
Efficacy: 109.0 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

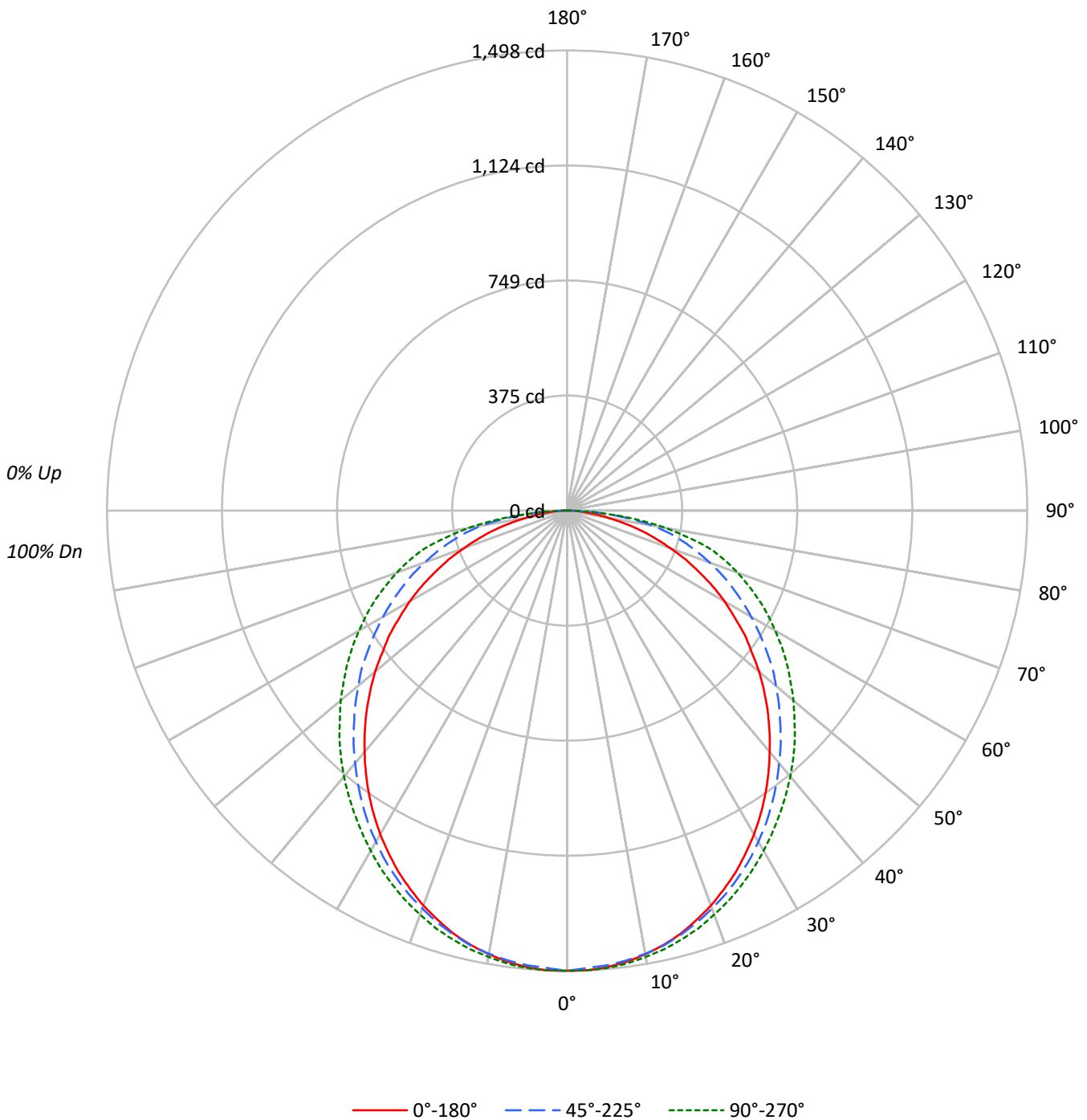
Input Watts (W): 40.92
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2015	2015	2015
5°	2015	2007	2019
10°	2004	2002	2016
15°	1987	1991	2012
20°	1959	1974	2004
25°	1928	1956	1996
30°	1890	1934	1987
35°	1849	1910	1981
40°	1802	1886	1985
45°	1756	1867	1995
50°	1708	1858	2013
55°	1656	1855	2050
60°	1591	1863	2104
65°	1507	1891	2195
70°	1400	1939	2319
75°	1277	2036	2516
80°	1050	2192	2515
85°	804	2022	2161



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.7	3.2
10°-20°	404.4	9.1
20°-30°	608.6	13.6
30°-40°	729.4	16.3
40°-50°	760.1	17.0
50°-60°	707.2	15.9
60°-70°	582.4	13.1
70°-80°	396.7	8.9
80°-90°	131.0	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°	1154.7	25.9
0°-40°	1884.1	42.2
0°-60°	3351.3	75.1
0°-90°	4461.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4461.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1492	1492	1486	1493	1495	142
15°	1426	1428	1429	1443	1444	402
25°	1298	1304	1318	1340	1344	598
35°	1126	1139	1163	1194	1206	704
45°	923	942	981	1030	1048	712
55°	706	730	791	853	874	629
65°	474	514	594	664	689	470
75°	246	301	392	462	484	259
85°	52	101	131	140	140	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1497.9	1497.9	1497.9	1497.9	1497.9
2.5°	1497.9	1497.9	1490.4	1497.9	1497.9
5°	1491.9	1491.9	1486.0	1493.4	1494.9
7.5°	1481.5	1483.0	1477.0	1486.0	1487.5
10°	1466.6	1468.1	1465.1	1474.1	1475.5
12.5°	1448.7	1450.2	1450.2	1460.7	1462.1
15°	1426.4	1427.9	1429.4	1442.8	1444.3
17.5°	1398.1	1402.6	1405.6	1421.9	1424.9
20°	1368.3	1372.8	1378.8	1396.6	1399.6
22.5°	1334.1	1340.0	1350.5	1369.8	1374.3
25°	1298.4	1304.3	1317.7	1340.0	1344.5
27.5°	1258.2	1267.1	1283.5	1307.3	1313.2
30°	1216.5	1225.4	1244.8	1270.1	1279.0
32.5°	1171.8	1183.7	1206.0	1234.3	1243.3
35°	1125.6	1139.0	1162.9	1194.1	1206.0
37.5°	1076.5	1091.4	1119.7	1153.9	1168.8
40°	1025.9	1043.7	1073.5	1113.7	1130.1
42.5°	975.3	991.6	1028.9	1072.0	1089.9
45°	923.1	942.5	981.2	1030.3	1048.2
47.5°	869.5	888.9	935.1	987.2	1003.5
50°	815.9	835.3	887.4	942.5	961.9
52.5°	757.9	783.2	842.7	897.8	917.2
55°	705.8	729.6	790.6	853.2	874.0
57.5°	646.2	674.5	741.5	807.0	829.3
60°	591.1	620.9	692.4	759.4	781.7
62.5°	534.5	567.3	643.2	711.7	737.0
65°	473.5	513.7	594.1	664.1	689.4
67.5°	418.4	460.1	545.0	616.4	638.8
70°	355.9	406.5	492.8	564.3	589.6
72.5°	302.3	352.9	443.7	513.7	539.0
75°	245.7	300.8	391.6	461.6	483.9
77.5°	189.1	250.1	341.0	394.6	402.0
80°	135.5	199.5	282.9	314.2	324.6
82.5°	95.3	153.4	208.5	229.3	235.3
85°	52.1	101.2	131.0	140.0	140.0
87.5°	22.3	43.2	52.1	53.6	55.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)