

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: P276300

Luminaire Tested: **24CZ2-45-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276300
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: 24CZ2-45-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.3 lumens
Efficiency: N/A
Efficacy: 111.8 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

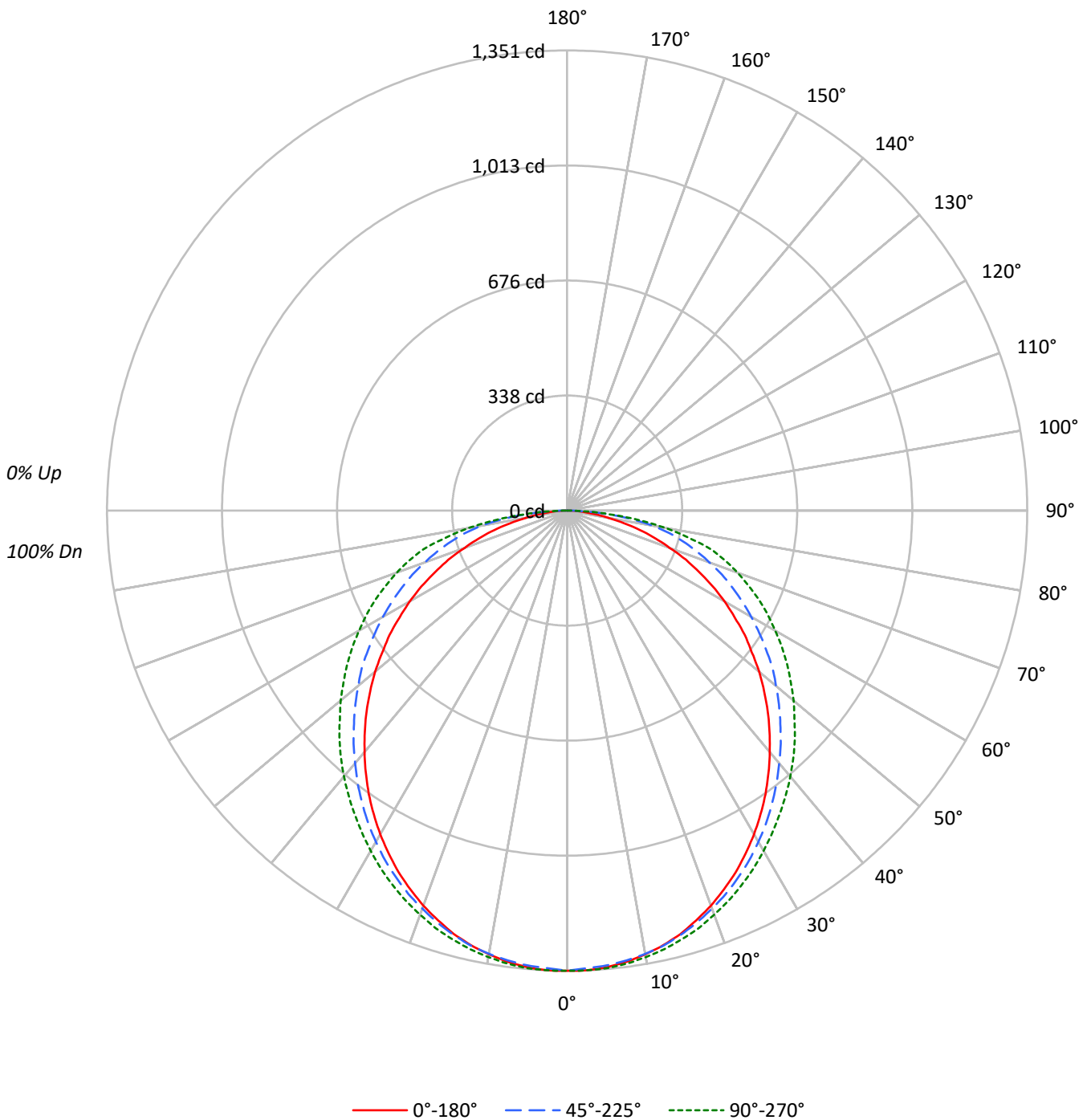
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1818	1818	1818
5°	1818	1810	1821
10°	1807	1806	1818
15°	1792	1796	1815
20°	1767	1781	1808
25°	1739	1765	1801
30°	1705	1744	1792
35°	1668	1723	1787
40°	1625	1701	1790
45°	1584	1684	1799
50°	1541	1676	1816
55°	1493	1673	1849
60°	1435	1681	1897
65°	1360	1706	1980
70°	1263	1749	2092
75°	1152	1836	2269
80°	947	1977	2269
85°	726	1825	1948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.8	3.2
10°-20°	364.8	9.1
20°-30°	549.0	13.6
30°-40°	657.9	16.3
40°-50°	685.6	17.0
50°-60°	637.9	15.9
60°-70°	525.4	13.1
70°-80°	357.8	8.9
80°-90°	118.1	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°	1041.6	25.9
0°-40°	1699.5	42.2
0°-60°	3023.0	75.1
0°-90°	4024.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1346	1346	1340	1347	1348	128
15°	1287	1288	1289	1301	1303	362
25°	1171	1176	1189	1209	1213	539
35°	1015	1028	1049	1077	1088	635
45°	833	850	885	929	946	642
55°	637	658	713	770	788	567
65°	427	463	536	599	622	424
75°	222	271	353	416	436	234
85°	47	91	118	126	126	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.1	1351.1	1351.1	1351.1	1351.1
2.5°	1351.1	1351.1	1344.4	1351.1	1351.1
5°	1345.8	1345.8	1340.4	1347.1	1348.5
7.5°	1336.4	1337.7	1332.3	1340.4	1341.7
10°	1322.9	1324.3	1321.6	1329.7	1331.0
12.5°	1306.8	1308.2	1308.2	1317.6	1318.9
15°	1286.7	1288.0	1289.4	1301.4	1302.8
17.5°	1261.2	1265.2	1267.9	1282.6	1285.3
20°	1234.3	1238.3	1243.7	1259.8	1262.5
22.5°	1203.4	1208.8	1218.2	1235.6	1239.7
25°	1171.2	1176.5	1188.6	1208.8	1212.8
27.5°	1134.9	1143.0	1157.7	1179.2	1184.6
30°	1097.3	1105.4	1122.8	1145.6	1153.7
32.5°	1057.0	1067.7	1087.9	1113.4	1121.5
35°	1015.4	1027.5	1048.9	1077.2	1087.9
37.5°	971.0	984.5	1010.0	1040.9	1054.3
40°	925.4	941.5	968.4	1004.6	1019.4
42.5°	879.7	894.5	928.1	967.0	983.1
45°	832.7	850.2	885.1	929.4	945.5
47.5°	784.4	801.8	843.5	890.5	905.2
50°	736.0	753.5	800.5	850.2	867.6
52.5°	683.6	706.5	760.2	809.9	827.3
55°	636.6	658.1	713.2	769.6	788.4
57.5°	582.9	608.4	668.9	727.9	748.1
60°	533.2	560.1	624.5	685.0	705.1
62.5°	482.2	511.7	580.2	642.0	664.8
65°	427.1	463.4	535.9	599.0	621.8
67.5°	377.4	415.0	491.6	556.0	576.2
70°	321.0	366.7	444.6	509.0	531.9
72.5°	272.6	318.3	400.2	463.4	486.2
75°	221.6	271.3	353.2	416.4	436.5
77.5°	170.6	225.6	307.6	355.9	362.6
80°	122.2	180.0	255.2	283.4	292.8
82.5°	86.0	138.3	188.0	206.8	212.2
85°	47.0	91.3	118.2	126.2	126.2
87.5°	20.1	38.9	47.0	48.4	49.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)