

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: P276311

Luminaire Tested: **24CZ2-50-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276311
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-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4490.7 lumens
Efficiency: N/A
Efficacy: 108.0 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

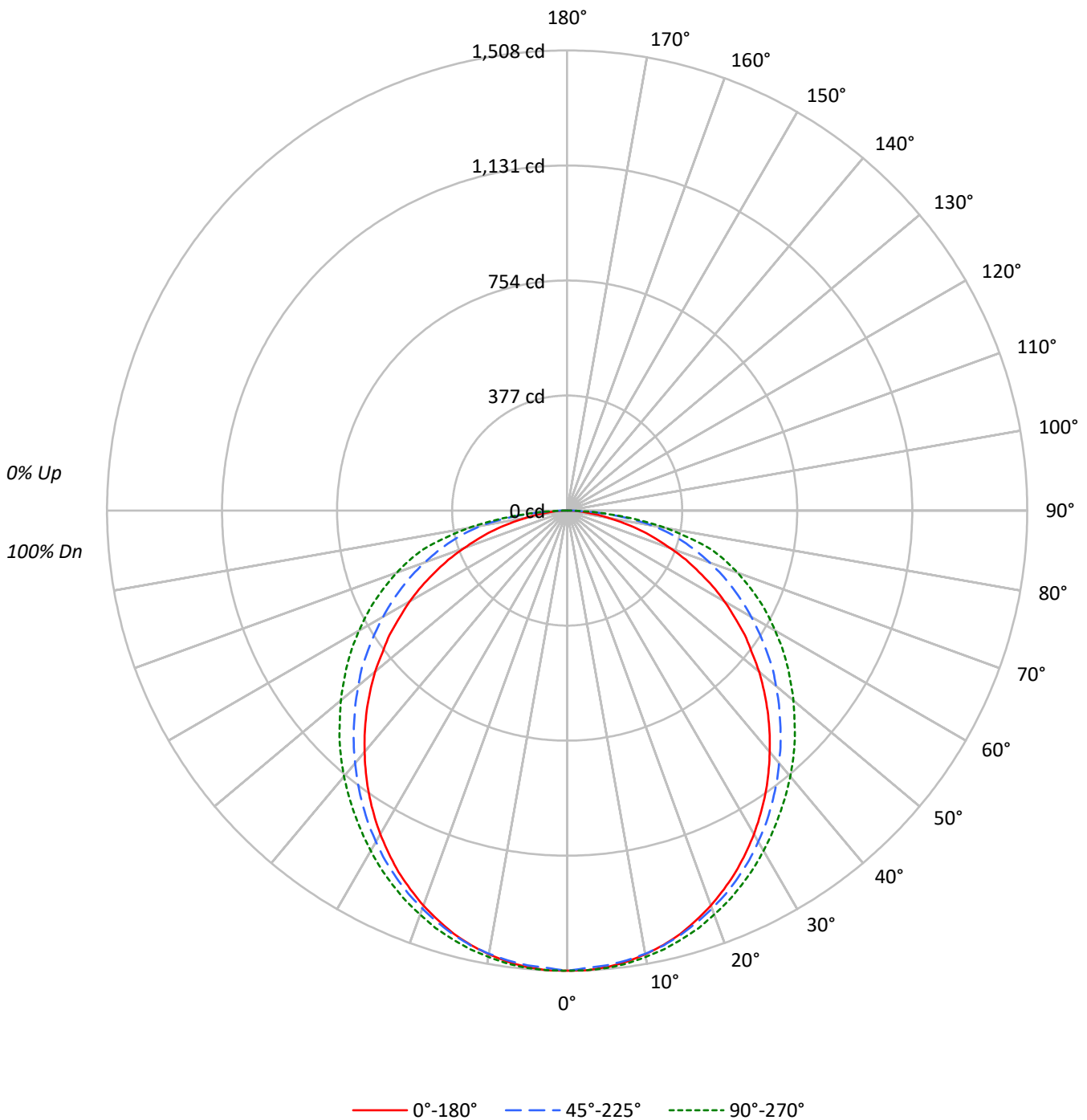
Input Watts (W): 41.571
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2029	2029	2029
5°	2028	2020	2032
10°	2017	2015	2029
15°	2000	2004	2025
20°	1972	1987	2017
25°	1940	1969	2009
30°	1902	1947	2000
35°	1861	1923	1994
40°	1814	1898	1998
45°	1768	1879	2008
50°	1719	1870	2027
55°	1666	1867	2064
60°	1601	1875	2117
65°	1517	1904	2209
70°	1409	1952	2335
75°	1286	2049	2532
80°	1057	2207	2531
85°	810	2036	2175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	3.2
10°-20°	407.1	9.1
20°-30°	612.6	13.6
30°-40°	734.1	16.3
40°-50°	765.1	17.0
50°-60°	711.8	15.9
60°-70°	586.3	13.1
70°-80°	399.3	8.9
80°-90°	131.8	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°	1162.3	25.9
0°-40°	1896.5	42.2
0°-60°	3373.3	75.1
0°-90°	4490.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4490.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1502	1502	1496	1503	1505	143
15°	1436	1437	1439	1452	1454	404
25°	1307	1313	1326	1349	1353	602
35°	1133	1146	1170	1202	1214	708
45°	929	949	988	1037	1055	717
55°	710	734	796	859	880	633
65°	477	517	598	668	694	473
75°	247	303	394	465	487	261
85°	52	102	132	141	141	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.7	1507.7	1507.7	1507.7	1507.7
2.5°	1507.7	1507.7	1500.2	1507.7	1507.7
5°	1501.7	1501.7	1495.7	1503.2	1504.7
7.5°	1491.2	1492.7	1486.7	1495.7	1497.2
10°	1476.3	1477.7	1474.8	1483.7	1485.2
12.5°	1458.3	1459.8	1459.8	1470.3	1471.8
15°	1435.8	1437.3	1438.8	1452.3	1453.8
17.5°	1407.3	1411.8	1414.8	1431.3	1434.3
20°	1377.3	1381.8	1387.8	1405.8	1408.8
22.5°	1342.9	1348.9	1359.3	1378.8	1383.3
25°	1306.9	1312.9	1326.4	1348.9	1353.4
27.5°	1266.4	1275.4	1291.9	1315.9	1321.9
30°	1224.5	1233.5	1252.9	1278.4	1287.4
32.5°	1179.5	1191.5	1214.0	1242.4	1251.4
35°	1133.0	1146.5	1170.5	1202.0	1214.0
37.5°	1083.6	1098.6	1127.0	1161.5	1176.5
40°	1032.6	1050.6	1080.6	1121.1	1137.5
42.5°	981.7	998.2	1035.6	1079.1	1097.1
45°	929.2	948.7	987.7	1037.1	1055.1
47.5°	875.3	894.7	941.2	993.7	1010.1
50°	821.3	840.8	893.2	948.7	968.2
52.5°	762.9	788.3	848.3	903.7	923.2
55°	710.4	734.4	795.8	858.8	879.8
57.5°	650.4	678.9	746.4	812.3	834.8
60°	595.0	625.0	696.9	764.4	786.8
62.5°	538.0	571.0	647.5	716.4	741.9
65°	476.6	517.1	598.0	668.4	693.9
67.5°	421.1	463.1	548.5	620.5	643.0
70°	358.2	409.2	496.1	568.0	593.5
72.5°	304.2	355.2	446.6	517.1	542.5
75°	247.3	302.7	394.2	464.6	487.1
77.5°	190.3	251.8	343.2	397.2	404.7
80°	136.4	200.8	284.8	316.2	326.7
82.5°	95.9	154.4	209.8	230.8	236.8
85°	52.5	101.9	131.9	140.9	140.9
87.5°	22.5	43.5	52.5	54.0	55.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)