

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: P276305

Luminaire Tested: **24CZ2-50-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276305
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-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4048.9 lumens
Efficiency: N/A
Efficacy: 101.7 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

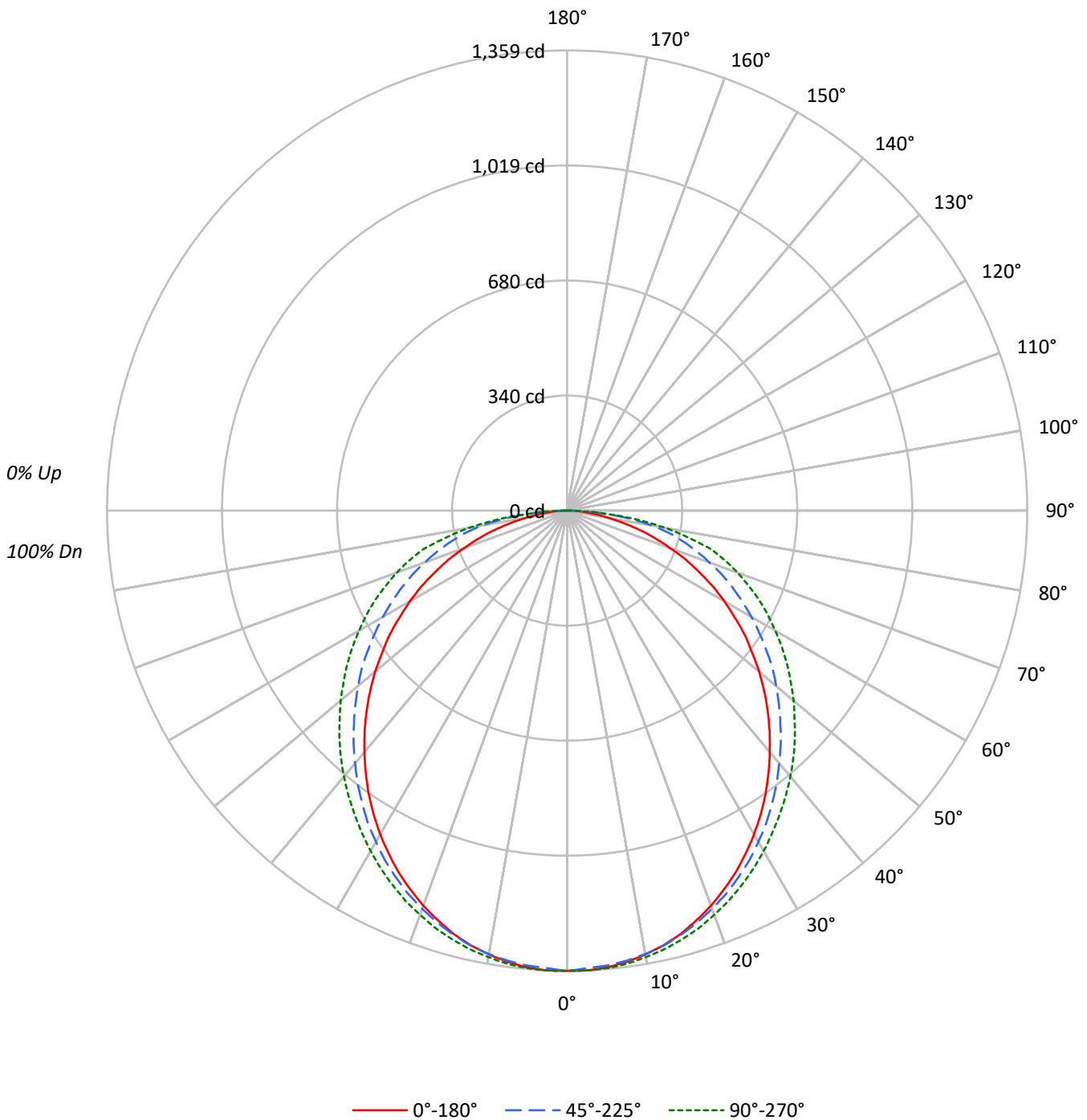
Input Watts (W): 39.804
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1829	1829	1829
5°	1829	1821	1832
10°	1818	1817	1830
15°	1803	1807	1826
20°	1778	1792	1819
25°	1749	1775	1811
30°	1715	1755	1803
35°	1678	1734	1798
40°	1635	1711	1801
45°	1594	1694	1810
50°	1550	1686	1827
55°	1502	1683	1861
60°	1444	1691	1909
65°	1368	1717	1992
70°	1271	1760	2105
75°	1159	1848	2283
80°	953	1989	2283
85°	730	1836	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.6	3.2
10°-20°	367.0	9.1
20°-30°	552.3	13.6
30°-40°	661.9	16.3
40°-50°	689.8	17.0
50°-60°	641.8	15.9
60°-70°	528.6	13.1
70°-80°	360.0	8.9
80°-90°	118.8	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°	1048.0	25.9
0°-40°	1709.9	42.2
0°-60°	3041.5	75.1
0°-90°	4048.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1354	1354	1349	1355	1357	129
15°	1294	1296	1297	1309	1311	365
25°	1178	1184	1196	1216	1220	542
35°	1022	1034	1055	1084	1094	639
45°	838	855	890	935	951	646
55°	640	662	718	774	793	571
65°	430	466	539	603	626	427
75°	223	273	355	419	439	235
85°	47	92	119	127	127	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1359.4	1359.4	1359.4	1359.4	1359.4
2.5°	1359.4	1359.4	1352.6	1359.4	1359.4
5°	1354.0	1354.0	1348.6	1355.3	1356.7
7.5°	1344.5	1345.9	1340.5	1348.6	1349.9
10°	1331.0	1332.4	1329.7	1337.8	1339.1
12.5°	1314.8	1316.2	1316.2	1325.6	1327.0
15°	1294.5	1295.9	1297.2	1309.4	1310.8
17.5°	1268.9	1272.9	1275.6	1290.5	1293.2
20°	1241.8	1245.9	1251.3	1267.5	1270.2
22.5°	1210.8	1216.2	1225.6	1243.2	1247.2
25°	1178.3	1183.7	1195.9	1216.2	1220.2
27.5°	1141.8	1149.9	1164.8	1186.4	1191.8
30°	1104.0	1112.1	1129.7	1152.7	1160.8
32.5°	1063.5	1074.3	1094.5	1120.2	1128.3
35°	1021.6	1033.7	1055.4	1083.7	1094.5
37.5°	977.0	990.5	1016.2	1047.2	1060.8
40°	931.0	947.3	974.3	1010.8	1025.6
42.5°	885.1	900.0	933.7	972.9	989.1
45°	837.8	855.4	890.5	935.1	951.3
47.5°	789.2	806.7	848.6	895.9	910.8
50°	740.5	758.1	805.4	855.4	872.9
52.5°	687.8	710.8	764.8	814.8	832.4
55°	640.5	662.1	717.5	774.3	793.2
57.5°	586.5	612.1	672.9	732.4	752.7
60°	536.5	563.5	628.3	689.2	709.4
62.5°	485.1	514.8	583.8	645.9	668.9
65°	429.7	466.2	539.2	602.7	625.6
67.5°	379.7	417.5	494.6	559.4	579.7
70°	323.0	368.9	447.3	512.1	535.1
72.5°	274.3	320.3	402.7	466.2	489.2
75°	223.0	273.0	355.4	418.9	439.2
77.5°	171.6	227.0	309.4	358.1	364.8
80°	123.0	181.1	256.7	285.1	294.6
82.5°	86.5	139.2	189.2	208.1	213.5
85°	47.3	91.9	118.9	127.0	127.0
87.5°	20.3	39.2	47.3	48.6	50.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)