

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: P261372

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3892.0 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

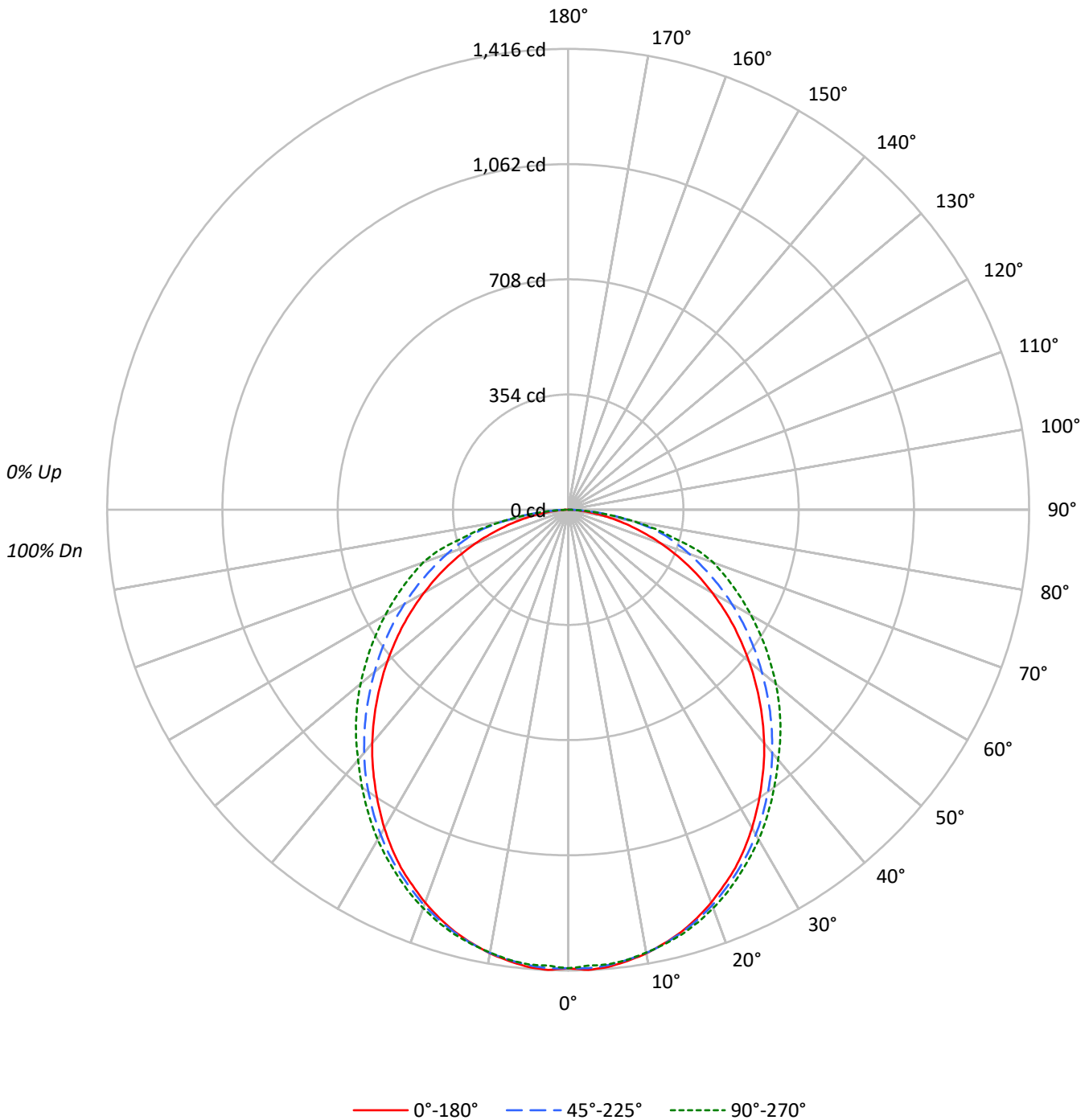
Input Watts (W): 31.341
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1896	1896	1896
5°	1905	1898	1894
10°	1891	1890	1888
15°	1871	1874	1881
20°	1839	1852	1865
25°	1803	1823	1842
30°	1755	1791	1819
35°	1700	1753	1789
40°	1645	1713	1763
45°	1582	1668	1755
50°	1518	1626	1743
55°	1452	1592	1738
60°	1376	1565	1746
65°	1294	1546	1781
70°	1192	1554	1865
75°	1057	1609	1737
80°	883	1525	1565
85°	659	1220	1119



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.4
10°-20°	378.9	9.7
20°-30°	564.6	14.5
30°-40°	664.6	17.1
40°-50°	675.4	17.4
50°-60°	607.2	15.6
60°-70°	479.7	12.3
70°-80°	304.3	7.8
80°-90°	84.0	2.2
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°	1076.7	27.7
0°-40°	1741.3	44.7
0°-60°	3023.9	77.7
0°-90°	3892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1410	1399	1405	1402	1402	134
15°	1343	1336	1346	1349	1351	378
25°	1215	1213	1228	1235	1241	559
35°	1035	1041	1067	1079	1089	647
45°	831	843	877	903	922	642
55°	619	635	679	723	741	553
65°	407	427	486	539	559	403
75°	203	238	310	337	334	216
85°	43	74	79	72	72	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.0	1409.0	1409.0	1409.0	1409.0
2.5°	1415.5	1405.1	1410.3	1407.7	1402.5
5°	1410.3	1398.6	1405.1	1402.5	1402.5
7.5°	1398.6	1389.6	1394.7	1393.4	1394.7
10°	1384.4	1375.3	1383.1	1383.1	1381.8
12.5°	1364.9	1357.2	1366.2	1366.2	1367.5
15°	1342.9	1336.5	1345.5	1349.4	1350.7
17.5°	1315.7	1309.3	1320.9	1324.8	1328.7
20°	1284.7	1282.1	1293.7	1297.6	1302.8
22.5°	1249.7	1249.7	1261.3	1266.5	1274.3
25°	1214.7	1213.4	1227.7	1235.4	1240.6
27.5°	1173.3	1174.6	1192.7	1200.5	1207.0
30°	1129.3	1131.8	1152.6	1161.6	1170.7
32.5°	1082.6	1087.8	1111.1	1121.5	1130.5
35°	1034.7	1041.2	1067.1	1078.7	1089.1
37.5°	986.8	995.9	1023.1	1034.7	1046.4
40°	936.3	944.1	975.1	989.4	1003.6
42.5°	884.5	894.9	925.9	946.7	963.5
45°	831.4	843.1	876.7	902.6	922.1
47.5°	778.3	793.8	826.2	861.2	878.0
50°	725.2	740.7	777.0	815.9	832.7
52.5°	670.8	686.4	727.8	767.9	786.1
55°	619.0	634.6	678.6	722.6	740.7
57.5°	564.6	581.5	630.7	676.0	694.1
60°	511.5	528.4	581.5	629.4	648.8
62.5°	459.7	477.9	533.5	584.1	603.5
65°	406.6	427.4	485.6	538.7	559.4
67.5°	354.8	378.1	439.0	494.7	516.7
70°	303.0	330.2	395.0	452.0	474.0
72.5°	252.5	282.3	350.9	407.9	419.6
75°	203.3	238.3	309.5	336.7	334.1
77.5°	156.7	195.5	262.9	268.1	275.8
80°	114.0	156.7	196.8	207.2	202.0
82.5°	75.1	117.8	141.2	136.0	134.7
85°	42.7	73.8	79.0	72.5	72.5
87.5°	18.1	29.8	25.9	19.4	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)