

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: P261370

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261370
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-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3817.0 lumens
Efficiency: N/A
Efficacy: 122.5 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

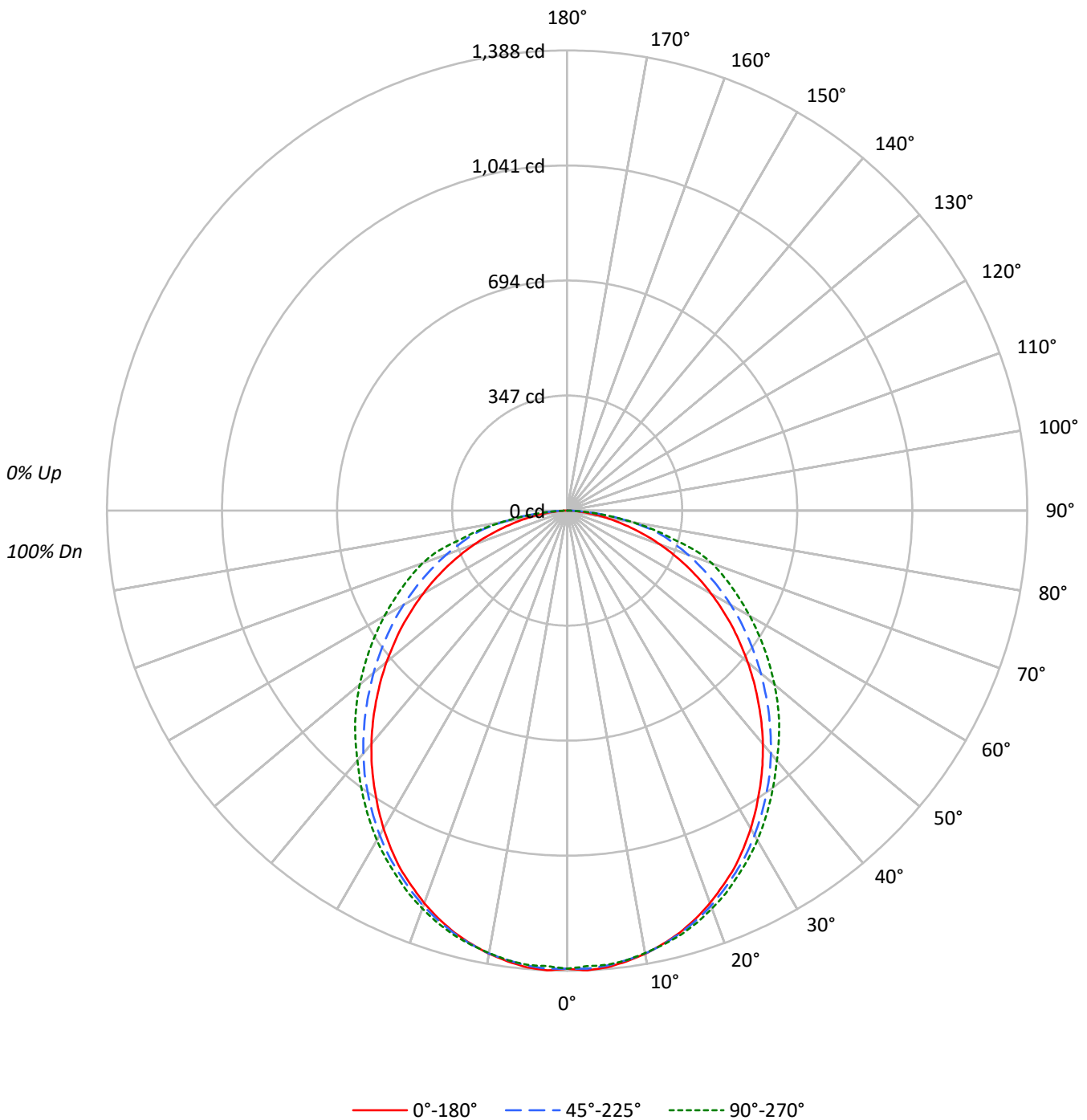
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1859	1859	1859
5°	1868	1861	1858
10°	1855	1853	1852
15°	1835	1838	1845
20°	1804	1817	1829
25°	1769	1787	1806
30°	1721	1756	1784
35°	1667	1719	1754
40°	1613	1680	1729
45°	1552	1636	1721
50°	1489	1595	1709
55°	1424	1561	1704
60°	1350	1535	1712
65°	1270	1516	1747
70°	1169	1524	1828
75°	1037	1578	1704
80°	866	1495	1535
85°	647	1196	1098



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.4
10°-20°	371.6	9.7
20°-30°	553.7	14.5
30°-40°	651.8	17.1
40°-50°	662.4	17.4
50°-60°	595.5	15.6
60°-70°	470.5	12.3
70°-80°	298.5	7.8
80°-90°	82.4	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°	1055.9	27.7
0°-40°	1707.7	44.7
0°-60°	2965.7	77.7
0°-90°	3817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1383	1372	1378	1376	1376	131
15°	1317	1311	1320	1323	1325	371
25°	1191	1190	1204	1212	1217	548
35°	1015	1021	1046	1058	1068	635
45°	815	827	860	885	904	629
55°	607	622	666	709	726	542
65°	399	419	476	528	549	395
75°	199	234	304	330	328	212
85°	42	72	78	71	71	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1381.8	1381.8	1381.8	1381.8	1381.8
2.5°	1388.2	1378.0	1383.1	1380.6	1375.5
5°	1383.1	1371.7	1378.0	1375.5	1375.5
7.5°	1371.7	1362.8	1367.9	1366.6	1367.9
10°	1357.7	1348.8	1356.4	1356.4	1355.2
12.5°	1338.6	1331.0	1339.9	1339.9	1341.2
15°	1317.1	1310.7	1319.6	1323.4	1324.7
17.5°	1290.4	1284.0	1295.5	1299.3	1303.1
20°	1259.9	1257.4	1268.8	1272.6	1277.7
22.5°	1225.6	1225.6	1237.0	1242.1	1249.7
25°	1191.3	1190.0	1204.0	1211.6	1216.7
27.5°	1150.7	1151.9	1169.7	1177.3	1183.7
30°	1107.5	1110.0	1130.4	1139.2	1148.1
32.5°	1061.8	1066.8	1089.7	1099.9	1108.8
35°	1014.8	1021.1	1046.5	1058.0	1068.1
37.5°	967.8	976.7	1003.3	1014.8	1026.2
40°	918.3	925.9	956.4	970.3	984.3
42.5°	867.5	877.6	908.1	928.4	944.9
45°	815.4	826.8	859.8	885.2	904.3
47.5°	763.3	778.5	810.3	844.6	861.1
50°	711.2	726.5	762.0	800.1	816.6
52.5°	657.9	673.1	713.8	753.1	770.9
55°	607.1	622.3	665.5	708.7	726.5
57.5°	553.7	570.3	618.5	663.0	680.8
60°	501.7	518.2	570.3	617.2	636.3
62.5°	450.9	468.7	523.3	572.8	591.8
65°	398.8	419.1	476.3	528.3	548.7
67.5°	348.0	370.9	430.6	485.2	506.8
70°	297.2	323.9	387.4	443.3	464.8
72.5°	247.7	276.9	344.2	400.1	411.5
75°	199.4	233.7	303.5	330.2	327.7
77.5°	153.7	191.8	257.8	262.9	270.5
80°	111.8	153.7	193.0	203.2	198.1
82.5°	73.7	115.6	138.4	133.4	132.1
85°	41.9	72.4	77.5	71.1	71.1
87.5°	17.8	29.2	25.4	19.1	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)