

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: P260953

Luminaire Tested: **24CZ-LD5-40SE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40SE-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.0 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

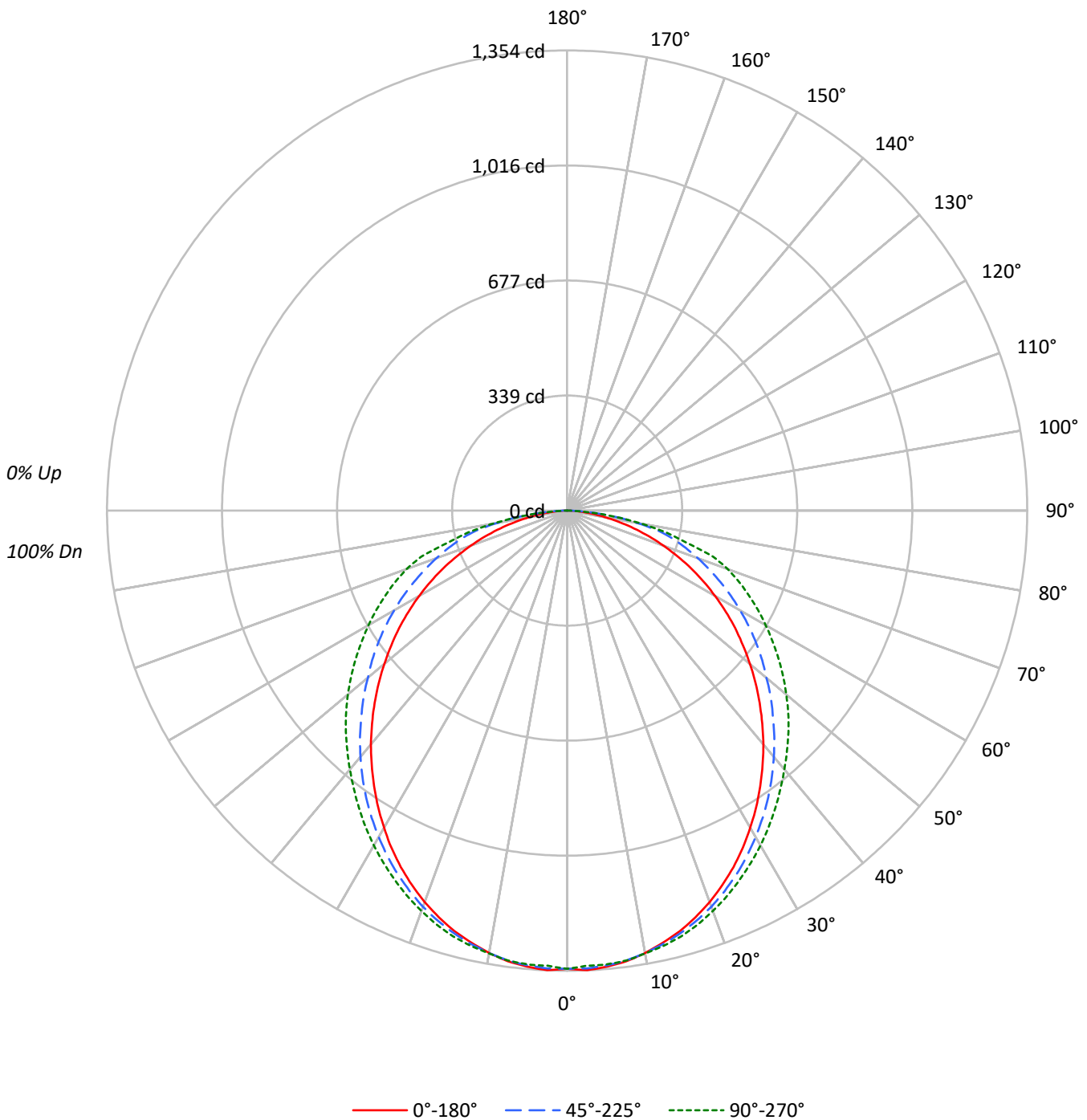
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1814	1814	1814
5°	1819	1814	1810
10°	1806	1806	1808
15°	1785	1794	1807
20°	1755	1776	1795
25°	1719	1752	1781
30°	1674	1723	1768
35°	1627	1694	1755
40°	1578	1661	1747
45°	1524	1630	1752
50°	1470	1603	1762
55°	1416	1592	1780
60°	1352	1582	1816
65°	1281	1583	1876
70°	1185	1609	1977
75°	1060	1682	1881
80°	886	1610	1722
85°	670	1238	1178



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.3
10°-20°	362.6	9.4
20°-30°	542.1	14.1
30°-40°	643.1	16.7
40°-50°	661.9	17.2
50°-60°	607.2	15.8
60°-70°	491.0	12.8
70°-80°	318.6	8.3
80°-90°	87.8	2.3
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°	1032.2	26.9
0°-40°	1675.3	43.6
0°-60°	2944.5	76.6
0°-90°	3842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1347	1338	1343	1342	1340	128
15°	1281	1276	1288	1293	1297	361
25°	1158	1159	1180	1190	1200	533
35°	990	998	1031	1054	1068	619
45°	801	814	856	897	921	618
55°	604	622	679	734	759	539
65°	402	426	497	563	589	398
75°	204	242	324	362	362	217
85°	43	74	80	78	76	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.3	1348.3	1348.3	1348.3	1348.3
2.5°	1353.6	1343.1	1348.3	1347.0	1340.4
5°	1347.0	1337.8	1343.1	1341.8	1340.4
7.5°	1337.8	1328.6	1335.2	1333.9	1335.2
10°	1322.0	1314.1	1322.0	1323.3	1323.3
12.5°	1302.3	1295.7	1306.2	1308.9	1311.5
15°	1281.3	1276.0	1287.8	1293.1	1297.0
17.5°	1254.9	1251.0	1265.5	1272.0	1277.3
20°	1226.0	1224.7	1240.5	1247.1	1253.6
22.5°	1193.1	1193.1	1211.5	1219.4	1228.6
25°	1157.6	1158.9	1180.0	1190.5	1199.7
27.5°	1119.5	1120.8	1145.8	1158.9	1169.4
30°	1077.4	1082.6	1108.9	1126.0	1137.9
32.5°	1035.3	1041.8	1070.8	1090.5	1103.7
35°	990.5	998.4	1031.3	1053.7	1068.2
37.5°	944.5	953.7	989.2	1014.2	1031.3
40°	898.5	909.0	945.8	974.8	994.5
42.5°	849.8	861.6	902.4	936.6	957.7
45°	801.1	814.3	856.4	897.1	920.8
47.5°	752.4	768.2	813.0	857.7	882.7
50°	702.5	718.2	765.6	816.9	841.9
52.5°	652.5	670.9	723.5	776.1	801.1
55°	603.8	622.2	678.8	734.0	759.0
57.5°	553.8	572.2	634.0	691.9	716.9
60°	502.5	523.6	588.0	647.2	674.8
62.5°	452.5	474.9	543.3	606.4	632.7
65°	402.5	426.2	497.2	563.0	589.3
67.5°	351.2	378.9	452.5	519.6	547.2
70°	301.2	331.5	409.1	476.2	502.5
72.5°	252.6	285.5	365.7	434.1	449.9
75°	203.9	242.0	323.6	361.8	361.8
77.5°	157.9	199.9	276.2	290.7	298.6
80°	114.4	160.5	207.8	224.9	222.3
82.5°	76.3	122.3	148.6	148.6	144.7
85°	43.4	73.7	80.2	77.6	76.3
87.5°	18.4	27.6	25.0	19.7	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)