

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: P261281

Luminaire Tested: **24CZ-LD5-40-S-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261281
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-LD5-40-S-UNV-L92765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3899.0 lumens
Efficiency: N/A
Efficacy: 133.9 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

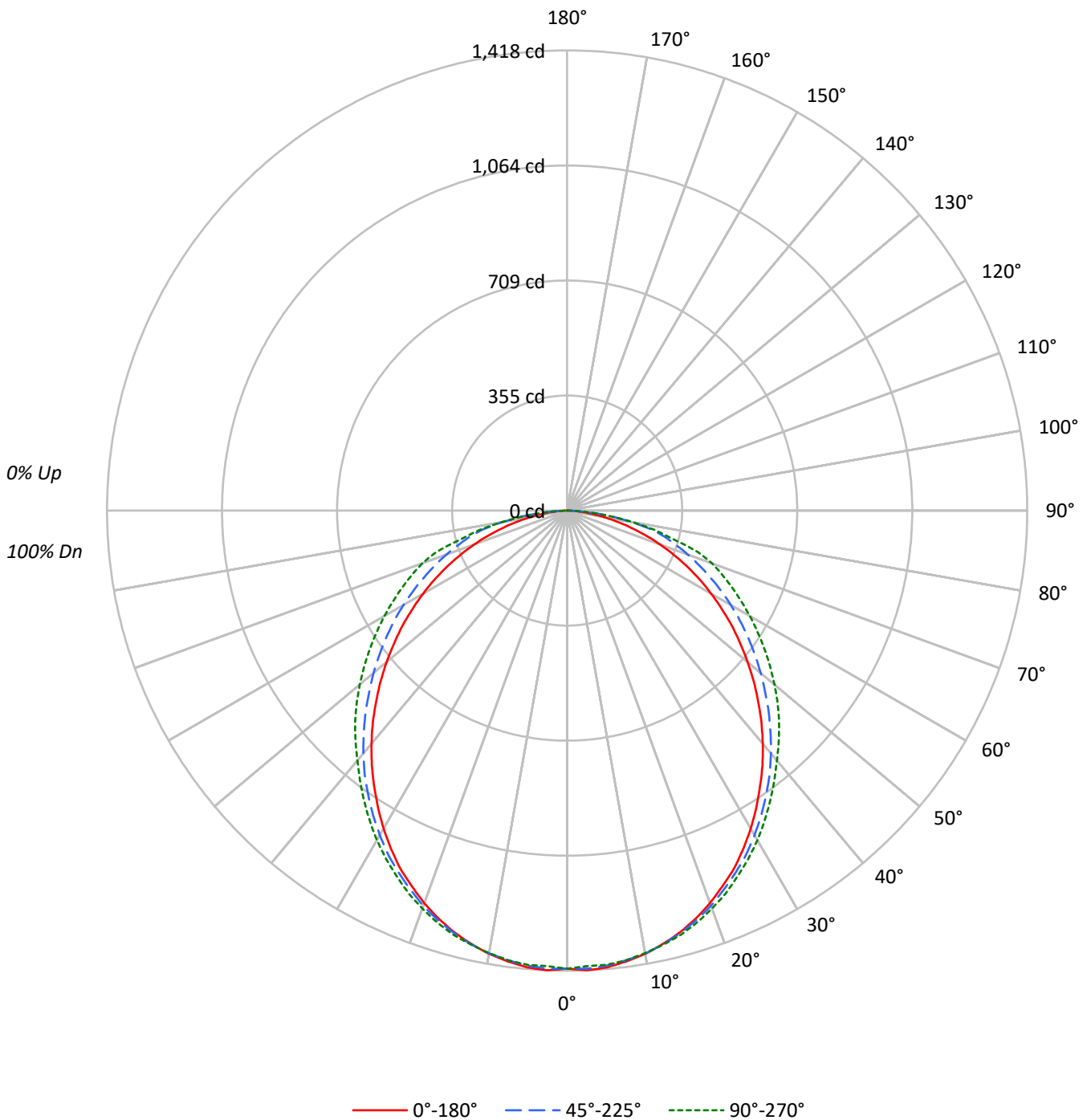
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1899	1899	1899
5°	1908	1901	1898
10°	1895	1893	1891
15°	1874	1878	1885
20°	1843	1856	1869
25°	1807	1826	1845
30°	1758	1794	1822
35°	1703	1756	1792
40°	1648	1716	1766
45°	1585	1671	1758
50°	1521	1629	1746
55°	1455	1595	1741
60°	1379	1567	1749
65°	1297	1549	1784
70°	1194	1557	1868
75°	1059	1612	1740
80°	885	1528	1568
85°	661	1221	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.4
10°-20°	379.5	9.7
20°-30°	565.6	14.5
30°-40°	665.8	17.1
40°-50°	676.6	17.4
50°-60°	608.3	15.6
60°-70°	480.6	12.3
70°-80°	304.9	7.8
80°-90°	84.1	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°	1078.6	27.7
0°-40°	1744.4	44.7
0°-60°	3029.4	77.7
0°-90°	3899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1413	1401	1408	1405	1405	134
15°	1345	1339	1348	1352	1353	379
25°	1217	1216	1230	1238	1243	560
35°	1037	1043	1069	1081	1091	649
45°	833	845	878	904	924	643
55°	620	636	680	724	742	554
65°	407	428	486	540	560	404
75°	204	239	310	337	335	217
85°	43	74	79	73	73	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1411.5	1411.5	1411.5	1411.5	1411.5
2.5°	1418.0	1407.6	1412.8	1410.2	1405.0
5°	1412.8	1401.1	1407.6	1405.0	1405.0
7.5°	1401.1	1392.0	1397.2	1395.9	1397.2
10°	1386.9	1377.8	1385.6	1385.6	1384.3
12.5°	1367.4	1359.6	1368.7	1368.7	1370.0
15°	1345.3	1338.9	1347.9	1351.8	1353.1
17.5°	1318.1	1311.6	1323.3	1327.2	1331.1
20°	1287.0	1284.4	1296.0	1299.9	1305.1
22.5°	1251.9	1251.9	1263.6	1268.8	1276.6
25°	1216.9	1215.6	1229.9	1237.7	1242.9
27.5°	1175.4	1176.7	1194.9	1202.6	1209.1
30°	1131.3	1133.9	1154.6	1163.7	1172.8
32.5°	1084.6	1089.8	1113.1	1123.5	1132.6
35°	1036.6	1043.1	1069.0	1080.7	1091.1
37.5°	988.6	997.7	1024.9	1036.6	1048.3
40°	938.0	945.8	976.9	991.2	1005.4
42.5°	886.1	896.5	927.6	948.4	965.2
45°	832.9	844.6	878.3	904.2	923.7
47.5°	779.7	795.3	827.7	862.7	879.6
50°	726.5	742.1	778.4	817.3	834.2
52.5°	672.0	687.6	729.1	769.3	787.5
55°	620.1	635.7	679.8	723.9	742.1
57.5°	565.6	582.5	631.8	677.2	695.4
60°	512.5	529.3	582.5	630.5	650.0
62.5°	460.6	478.7	534.5	585.1	604.6
65°	407.4	428.1	486.5	539.7	560.5
67.5°	355.5	378.8	439.8	495.6	517.6
70°	303.6	330.8	395.7	452.8	474.8
72.5°	253.0	282.8	351.6	408.7	420.3
75°	203.7	238.7	310.1	337.3	334.7
77.5°	157.0	195.9	263.4	268.6	276.3
80°	114.2	157.0	197.2	207.6	202.4
82.5°	75.2	118.1	141.4	136.2	134.9
85°	42.8	73.9	79.1	72.7	72.7
87.5°	18.2	29.8	25.9	19.5	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)