

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: P261233

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261233
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-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4122.0 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

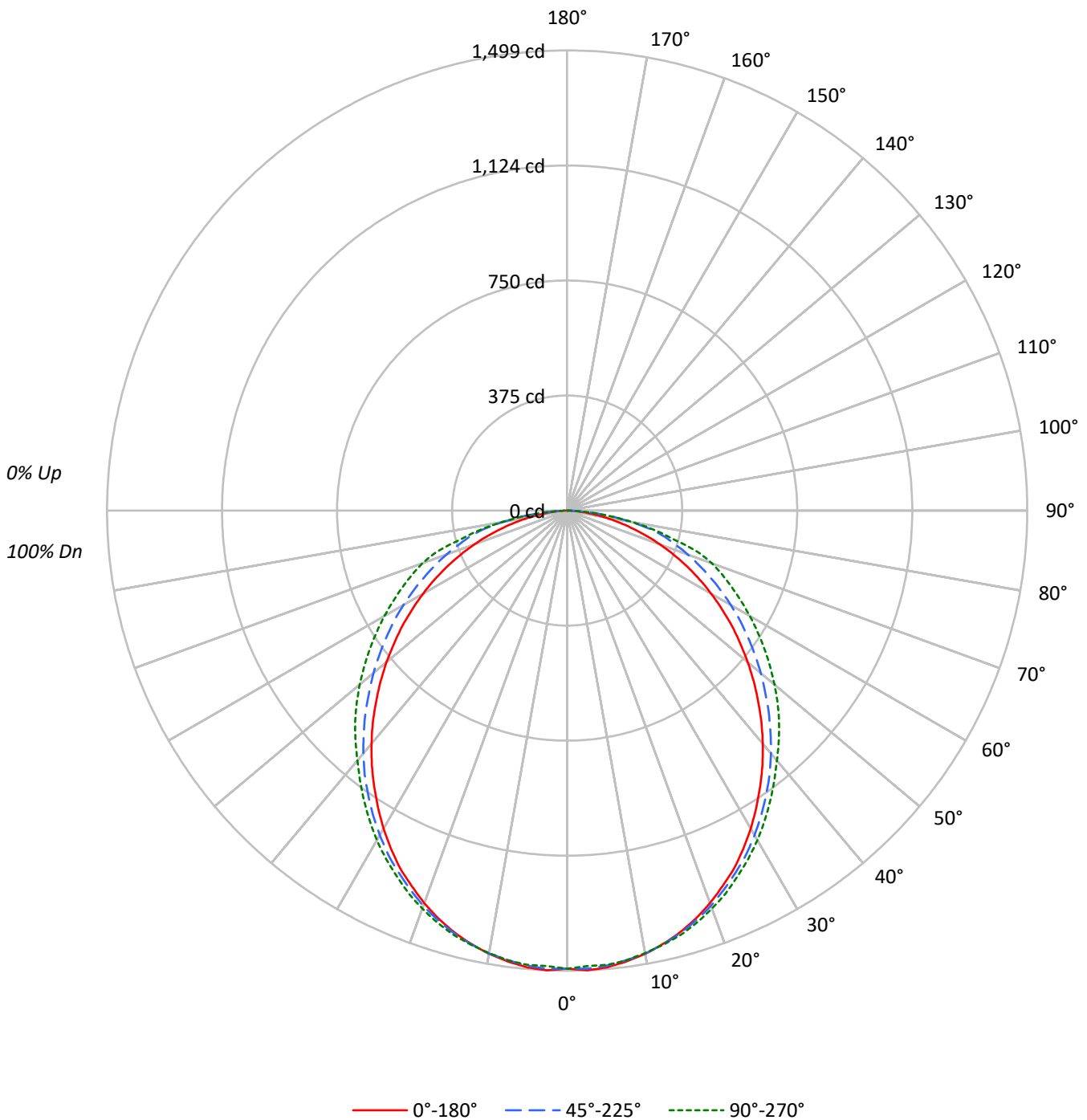
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2008	2008	2008
5°	2017	2010	2006
10°	2003	2001	1999
15°	1981	1985	1993
20°	1948	1962	1976
25°	1910	1930	1951
30°	1858	1897	1926
35°	1800	1856	1895
40°	1742	1814	1867
45°	1675	1767	1858
50°	1608	1723	1846
55°	1538	1686	1840
60°	1458	1657	1849
65°	1371	1637	1886
70°	1262	1646	1975
75°	1119	1704	1840
80°	935	1616	1658
85°	699	1292	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.1	3.4
10°-20°	401.2	9.7
20°-30°	598.0	14.5
30°-40°	703.9	17.1
40°-50°	715.3	17.4
50°-60°	643.1	15.6
60°-70°	508.1	12.3
70°-80°	322.3	7.8
80°-90°	89.0	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°	1140.3	27.7
0°-40°	1844.2	44.7
0°-60°	3202.6	77.7
0°-90°	4122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1492	1492	1492	1492	1492	
5°	1494	1481	1488	1485	1485	142
15°	1422	1415	1425	1429	1430	401
25°	1286	1285	1300	1308	1314	592
35°	1096	1103	1130	1142	1154	686
45°	880	893	928	956	976	679
55°	656	672	719	765	784	585
65°	431	453	514	571	592	427
75°	215	252	328	357	354	229
85°	45	78	84	77	77	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.2	1492.2	1492.2	1492.2	1492.2
2.5°	1499.1	1488.1	1493.6	1490.9	1485.4
5°	1493.6	1481.3	1488.1	1485.4	1485.4
7.5°	1481.3	1471.7	1477.2	1475.8	1477.2
10°	1466.2	1456.6	1464.8	1464.8	1463.4
12.5°	1445.6	1437.4	1447.0	1447.0	1448.4
15°	1422.3	1415.4	1425.0	1429.1	1430.5
17.5°	1393.5	1386.6	1399.0	1403.1	1407.2
20°	1360.6	1357.8	1370.2	1374.3	1379.8
22.5°	1323.5	1323.5	1335.9	1341.4	1349.6
25°	1286.5	1285.1	1300.2	1308.5	1313.9
27.5°	1242.6	1244.0	1263.2	1271.4	1278.3
30°	1196.0	1198.7	1220.7	1230.3	1239.9
32.5°	1146.6	1152.1	1176.8	1187.8	1197.4
35°	1095.9	1102.7	1130.2	1142.5	1153.5
37.5°	1045.1	1054.7	1083.5	1095.9	1108.2
40°	991.6	999.9	1032.8	1047.9	1062.9
42.5°	936.8	947.7	980.7	1002.6	1020.4
45°	880.5	892.9	928.5	956.0	976.5
47.5°	824.3	840.8	875.0	912.1	929.9
50°	768.1	784.5	822.9	864.1	881.9
52.5°	710.5	726.9	770.8	813.3	832.5
55°	655.6	672.1	718.7	765.3	784.5
57.5°	598.0	615.8	667.9	715.9	735.1
60°	541.8	559.6	615.8	666.6	687.1
62.5°	486.9	506.1	565.1	618.6	639.1
65°	430.7	452.6	514.3	570.6	592.5
67.5°	375.8	400.5	465.0	523.9	547.2
70°	320.9	349.7	418.3	478.7	502.0
72.5°	267.5	299.0	371.7	432.0	444.4
75°	215.3	252.4	327.8	356.6	353.9
77.5°	166.0	207.1	278.4	283.9	292.1
80°	120.7	166.0	208.5	219.4	214.0
82.5°	79.5	124.8	149.5	144.0	142.6
85°	45.3	78.2	83.7	76.8	76.8
87.5°	19.2	31.5	27.4	20.6	19.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)