

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: P261230

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261230
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-2700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3788.0 lumens
Efficiency: N/A
Efficacy: 124.6 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

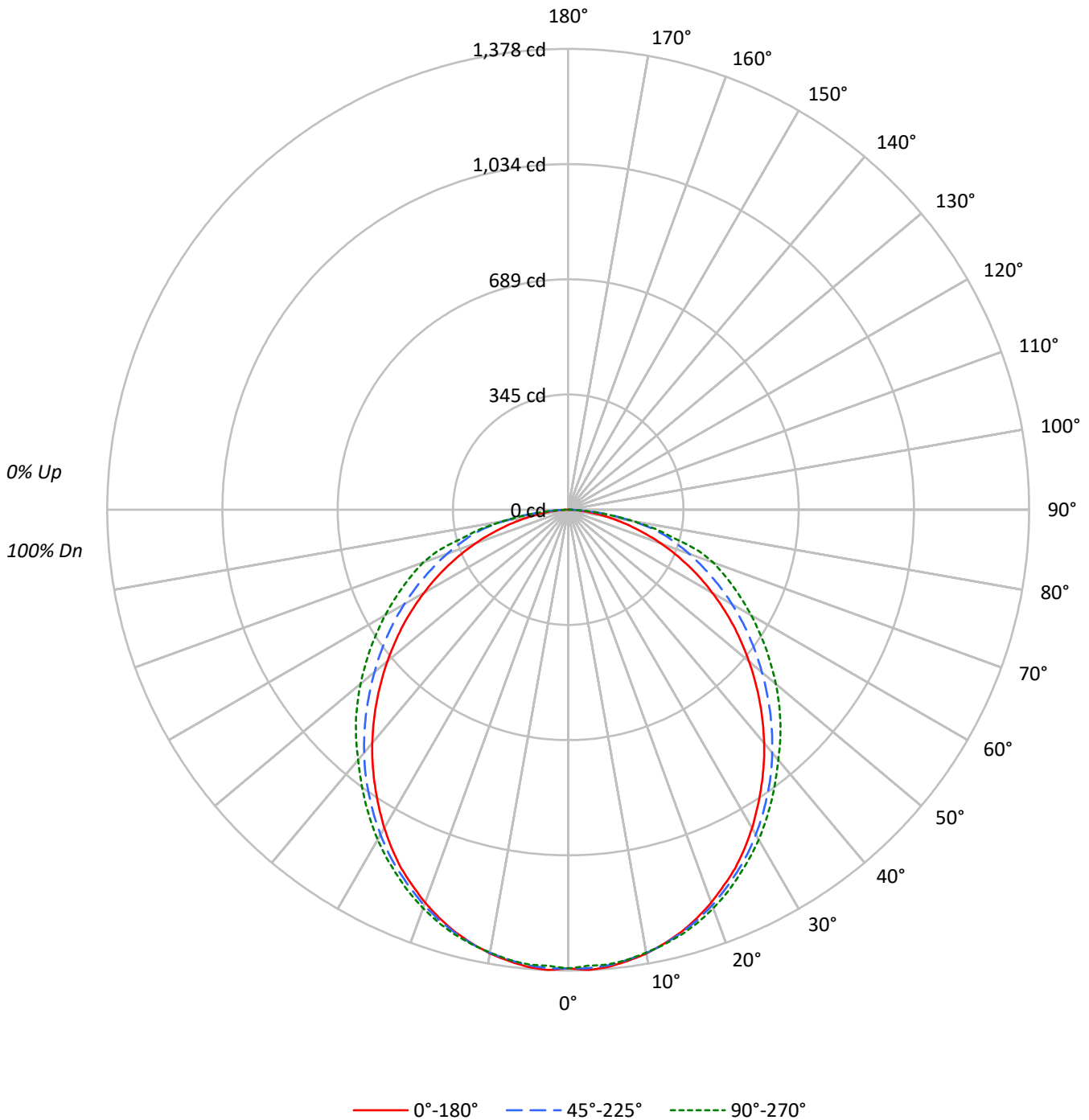
Input Watts (W): 30.411
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P261230

CATALOG NUMBER: 24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P261230

CATALOG NUMBER: 24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-2700K

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°	1845	1845	1845
5°	1854	1847	1844
10°	1841	1839	1837
15°	1821	1824	1831
20°	1790	1803	1816
25°	1755	1774	1793
30°	1708	1743	1770
35°	1654	1706	1741
40°	1601	1667	1716
45°	1540	1624	1708
50°	1477	1583	1696
55°	1413	1549	1691
60°	1340	1523	1699
65°	1260	1505	1734
70°	1160	1512	1815
75°	1029	1566	1691
80°	859	1485	1523
85°	642	1187	1090



TEST NUMBER: P261230

CATALOG NUMBER: 24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	3.4
10°-20°	368.7	9.7
20°-30°	549.5	14.5
30°-40°	646.9	17.1
40°-50°	657.4	17.4
50°-60°	591.0	15.6
60°-70°	466.9	12.3
70°-80°	296.2	7.8
80°-90°	81.7	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°	1047.9	27.7
0°-40°	1694.8	44.7
0°-60°	2943.1	77.7
0°-90°	3788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1371	1371	1371	1371	1371	
5°	1373	1361	1368	1365	1365	130
15°	1307	1301	1310	1313	1315	368
25°	1182	1181	1195	1202	1208	544
35°	1007	1013	1039	1050	1060	630
45°	809	820	853	878	897	624
55°	602	618	660	703	721	538
65°	396	416	473	524	544	392
75°	198	232	301	328	325	211
85°	42	72	77	71	71	51
90°	0	0	0	0	0	



TEST NUMBER: P261230

CATALOG NUMBER: 24CZ-LD5-40SE-S-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1371.3	1371.3	1371.3	1371.3	1371.3
2.5°	1377.6	1367.5	1372.6	1370.1	1365.0
5°	1372.6	1361.2	1367.5	1365.0	1365.0
7.5°	1361.2	1352.4	1357.5	1356.2	1357.5
10°	1347.4	1338.6	1346.1	1346.1	1344.9
12.5°	1328.5	1320.9	1329.7	1329.7	1331.0
15°	1307.0	1300.7	1309.6	1313.3	1314.6
17.5°	1280.6	1274.3	1285.6	1289.4	1293.2
20°	1250.3	1247.8	1259.1	1262.9	1268.0
22.5°	1216.3	1216.3	1227.6	1232.7	1240.2
25°	1182.3	1181.0	1194.9	1202.4	1207.5
27.5°	1141.9	1143.2	1160.8	1168.4	1174.7
30°	1099.1	1101.6	1121.8	1130.6	1139.4
32.5°	1053.7	1058.7	1081.4	1091.5	1100.3
35°	1007.1	1013.4	1038.6	1049.9	1060.0
37.5°	960.4	969.3	995.7	1007.1	1018.4
40°	911.3	918.8	949.1	963.0	976.8
42.5°	860.9	870.9	901.2	921.4	937.7
45°	809.2	820.5	853.3	878.5	897.4
47.5°	757.5	772.6	804.1	838.2	854.6
50°	705.8	721.0	756.2	794.1	810.4
52.5°	652.9	668.0	708.4	747.4	765.1
55°	602.5	617.6	660.5	703.3	721.0
57.5°	549.5	565.9	613.8	657.9	675.6
60°	497.9	514.2	565.9	612.6	631.5
62.5°	447.4	465.1	519.3	568.4	587.4
65°	395.8	415.9	472.7	524.3	544.5
67.5°	345.4	368.0	427.3	481.5	502.9
70°	294.9	321.4	384.4	439.9	461.3
72.5°	245.8	274.8	341.6	397.0	408.4
75°	197.9	231.9	301.2	327.7	325.2
77.5°	152.5	190.3	255.9	260.9	268.5
80°	110.9	152.5	191.6	201.7	196.6
82.5°	73.1	114.7	137.4	132.3	131.1
85°	41.6	71.8	76.9	70.6	70.6
87.5°	17.6	29.0	25.2	18.9	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)