

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: P#

Luminaire Tested: **24CZ-LD5-40-S-UNV-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
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-L835-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4043.3 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

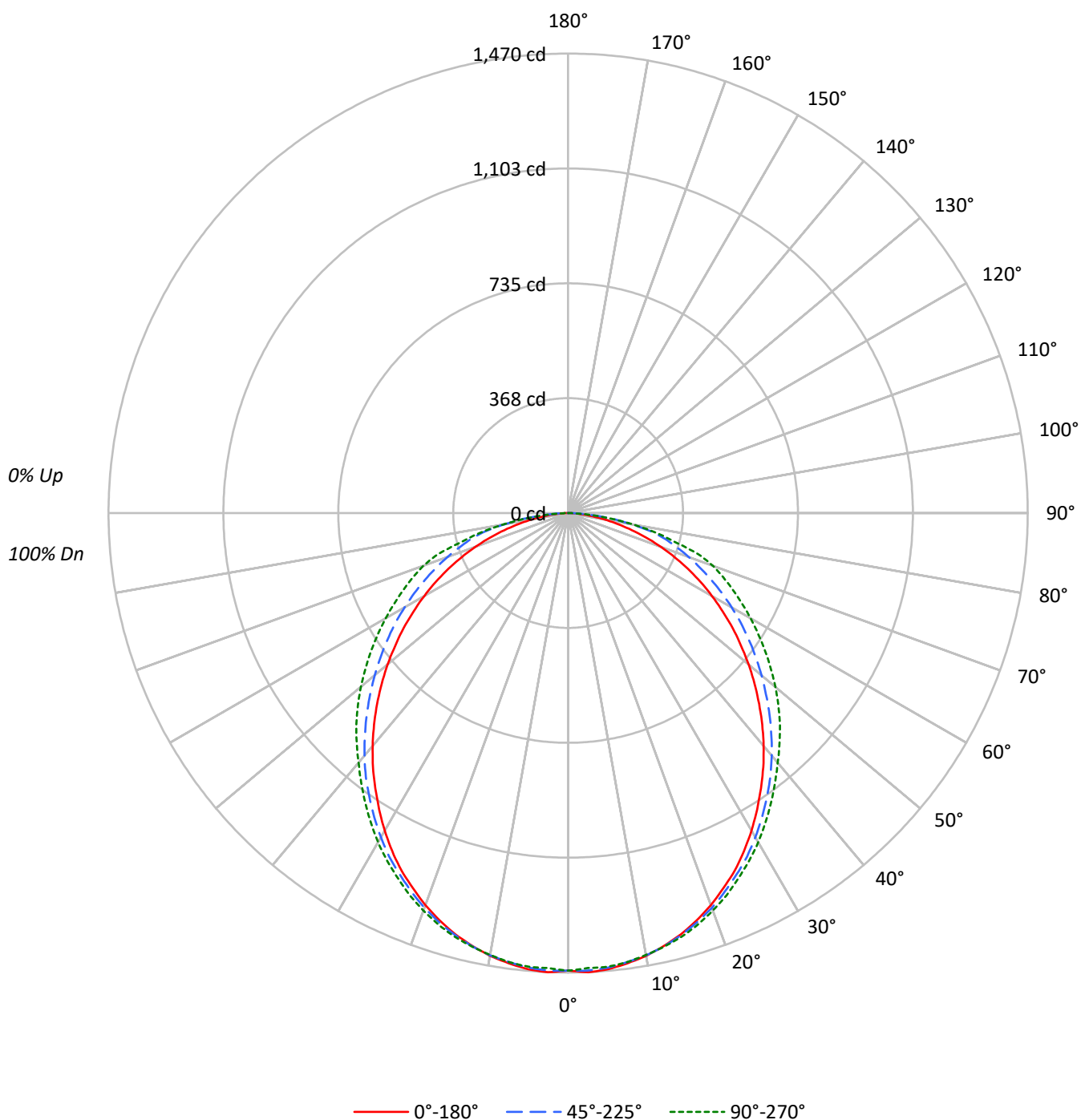
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
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°	1969	1969	1969
5°	1974	1962	1959
10°	1956	1945	1944
15°	1930	1920	1929
20°	1894	1888	1903
25°	1852	1848	1870
30°	1797	1805	1837
35°	1735	1756	1796
40°	1673	1703	1757
45°	1603	1646	1736
50°	1531	1589	1709
55°	1457	1537	1685
60°	1371	1489	1669
65°	1276	1442	1671
70°	1159	1409	1703
75°	1004	1395	1521
80°	803	1218	1267
85°	533	789	740



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.4
10°-20°	393.6	9.7
20°-30°	586.5	14.5
30°-40°	690.5	17.1
40°-50°	701.7	17.4
50°-60°	630.8	15.6
60°-70°	498.4	12.3
70°-80°	316.2	7.8
80°-90°	87.3	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°	1118.5	27.7
0°-40°	1809.0	44.7
0°-60°	3141.5	77.7
0°-90°	4043.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4043.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1464	1464	1464	1464	1464	
5°	1465	1453	1460	1457	1457	139
15°	1395	1388	1398	1402	1403	393
25°	1262	1261	1275	1284	1289	580
35°	1075	1082	1109	1121	1131	673
45°	864	876	911	938	958	666
55°	643	659	705	751	770	574
65°	422	444	504	560	581	418
75°	211	248	322	350	347	225
85°	44	77	82	75	75	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1463.7	1463.7	1463.7	1463.7	1463.7
2.5°	1470.5	1459.7	1465.1	1462.4	1457.0
5°	1465.1	1453.0	1459.7	1457.0	1457.0
7.5°	1453.0	1443.6	1448.9	1447.6	1448.9
10°	1438.2	1428.8	1436.8	1436.8	1435.5
12.5°	1418.0	1409.9	1419.3	1419.3	1420.7
15°	1395.1	1388.4	1397.8	1401.9	1403.2
17.5°	1366.9	1360.1	1372.3	1376.3	1380.3
20°	1334.6	1331.9	1344.0	1348.0	1353.4
22.5°	1298.3	1298.3	1310.4	1315.8	1323.8
25°	1261.9	1260.6	1275.4	1283.5	1288.8
27.5°	1218.9	1220.2	1239.1	1247.1	1253.9
30°	1173.1	1175.8	1197.4	1206.8	1216.2
32.5°	1124.7	1130.1	1154.3	1165.1	1174.5
35°	1074.9	1081.7	1108.6	1120.7	1131.4
37.5°	1025.2	1034.6	1062.8	1074.9	1087.0
40°	972.7	980.8	1013.0	1027.8	1042.6
42.5°	918.9	929.6	961.9	983.5	1000.9
45°	863.7	875.8	910.8	937.7	957.9
47.5°	808.6	824.7	858.3	894.7	912.1
50°	753.4	769.5	807.2	847.6	865.1
52.5°	696.9	713.0	756.1	797.8	816.6
55°	643.1	659.2	705.0	750.7	769.5
57.5°	586.6	604.1	655.2	702.3	721.1
60°	531.4	548.9	604.1	653.8	674.0
62.5°	477.6	496.4	554.3	606.8	626.9
65°	422.4	444.0	504.5	559.7	581.2
67.5°	368.6	392.8	456.1	513.9	536.8
70°	314.8	343.1	410.3	469.5	492.4
72.5°	262.3	293.3	364.6	423.8	435.9
75°	211.2	247.5	321.5	349.8	347.1
77.5°	162.8	203.1	273.1	278.5	286.6
80°	118.4	162.8	204.5	215.3	209.9
82.5°	78.0	122.4	146.6	141.3	139.9
85°	44.4	76.7	82.1	75.3	75.3
87.5°	18.8	30.9	26.9	20.2	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)