

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-L830-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-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3806.0 lumens
Efficiency: N/A
Efficacy: 131.1 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

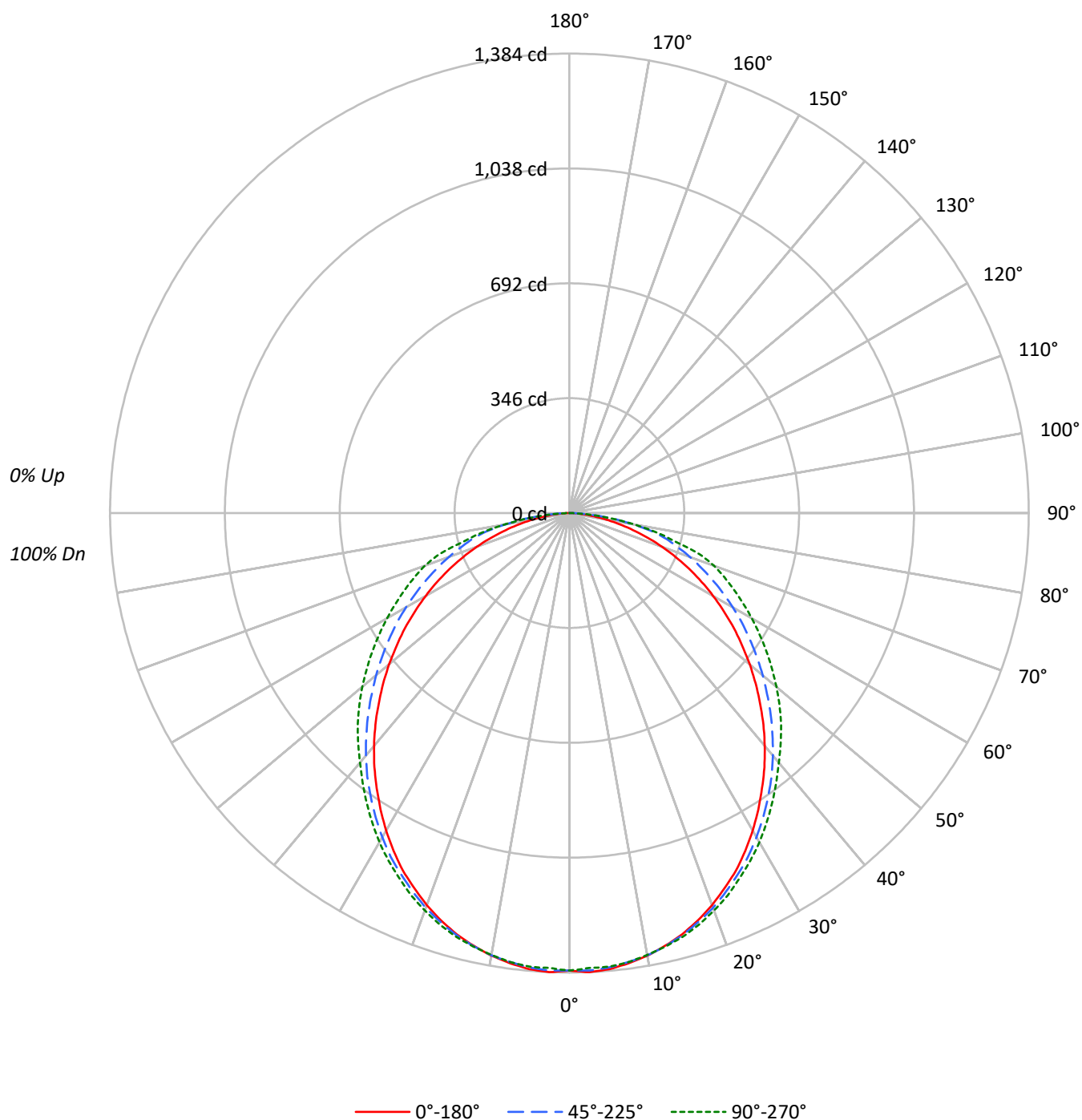
Input Watts (W): 29.04
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1854	1854	1854
5°	1859	1847	1844
10°	1842	1831	1830
15°	1817	1807	1816
20°	1783	1777	1792
25°	1743	1739	1760
30°	1691	1699	1729
35°	1633	1653	1690
40°	1575	1604	1654
45°	1509	1549	1634
50°	1442	1496	1609
55°	1371	1447	1586
60°	1290	1402	1571
65°	1202	1358	1573
70°	1091	1326	1603
75°	945	1314	1431
80°	756	1147	1193
85°	502	742	697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.3	3.4
10°-20°	370.5	9.7
20°-30°	552.1	14.5
30°-40°	649.9	17.1
40°-50°	660.5	17.4
50°-60°	593.8	15.6
60°-70°	469.1	12.3
70°-80°	297.6	7.8
80°-90°	82.2	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°	1052.9	27.7
0°-40°	1702.8	44.7
0°-60°	2957.2	77.7
0°-90°	3806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1379	1368	1374	1372	1372	131
15°	1313	1307	1316	1320	1321	370
25°	1188	1187	1201	1208	1213	546
35°	1012	1018	1044	1055	1065	633
45°	813	824	857	883	902	627
55°	605	620	664	707	724	541
65°	398	418	475	527	547	394
75°	199	233	303	329	327	212
85°	42	72	77	71	71	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.9	1377.9	1377.9	1377.9	1377.9
2.5°	1384.2	1374.1	1379.1	1376.6	1371.5
5°	1379.1	1367.7	1374.1	1371.5	1371.5
7.5°	1367.7	1358.9	1363.9	1362.7	1363.9
10°	1353.8	1344.9	1352.5	1352.5	1351.3
12.5°	1334.8	1327.2	1336.1	1336.1	1337.3
15°	1313.3	1306.9	1315.8	1319.6	1320.9
17.5°	1286.7	1280.3	1291.7	1295.5	1299.3
20°	1256.3	1253.8	1265.2	1268.9	1274.0
22.5°	1222.1	1222.1	1233.5	1238.6	1246.2
25°	1187.9	1186.6	1200.6	1208.2	1213.2
27.5°	1147.4	1148.6	1166.4	1174.0	1180.3
30°	1104.3	1106.8	1127.1	1136.0	1144.8
32.5°	1058.8	1063.8	1086.6	1096.8	1105.6
35°	1011.8	1018.2	1043.6	1055.0	1065.0
37.5°	965.0	973.8	1000.4	1011.8	1023.2
40°	915.6	923.2	953.6	967.6	981.4
42.5°	865.0	875.1	905.5	925.8	942.2
45°	813.0	824.4	857.4	882.7	901.7
47.5°	761.1	776.3	808.0	842.2	858.6
50°	709.2	724.4	759.8	797.8	814.3
52.5°	656.0	671.2	711.7	751.0	768.7
55°	605.3	620.5	663.6	706.7	724.4
57.5°	552.1	568.7	616.7	661.1	678.8
60°	500.3	516.7	568.7	615.5	634.5
62.5°	449.5	467.3	521.7	571.1	590.1
65°	397.7	417.9	474.9	526.9	547.1
67.5°	347.0	369.8	429.3	483.7	505.3
70°	296.3	322.9	386.3	441.9	463.5
72.5°	247.0	276.1	343.2	398.9	410.3
75°	198.8	233.0	302.7	329.3	326.7
77.5°	153.2	191.2	257.1	262.1	269.7
80°	111.4	153.2	192.5	202.6	197.6
82.5°	73.4	115.2	138.0	133.0	131.7
85°	41.8	72.2	77.2	71.0	71.0
87.5°	17.8	29.2	25.4	19.0	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)