

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-LD5-35-S-UNV-L850-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-LD5-35-S-UNV-L850-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3932.2 lumens
Efficiency: N/A
Efficacy: 155.3 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

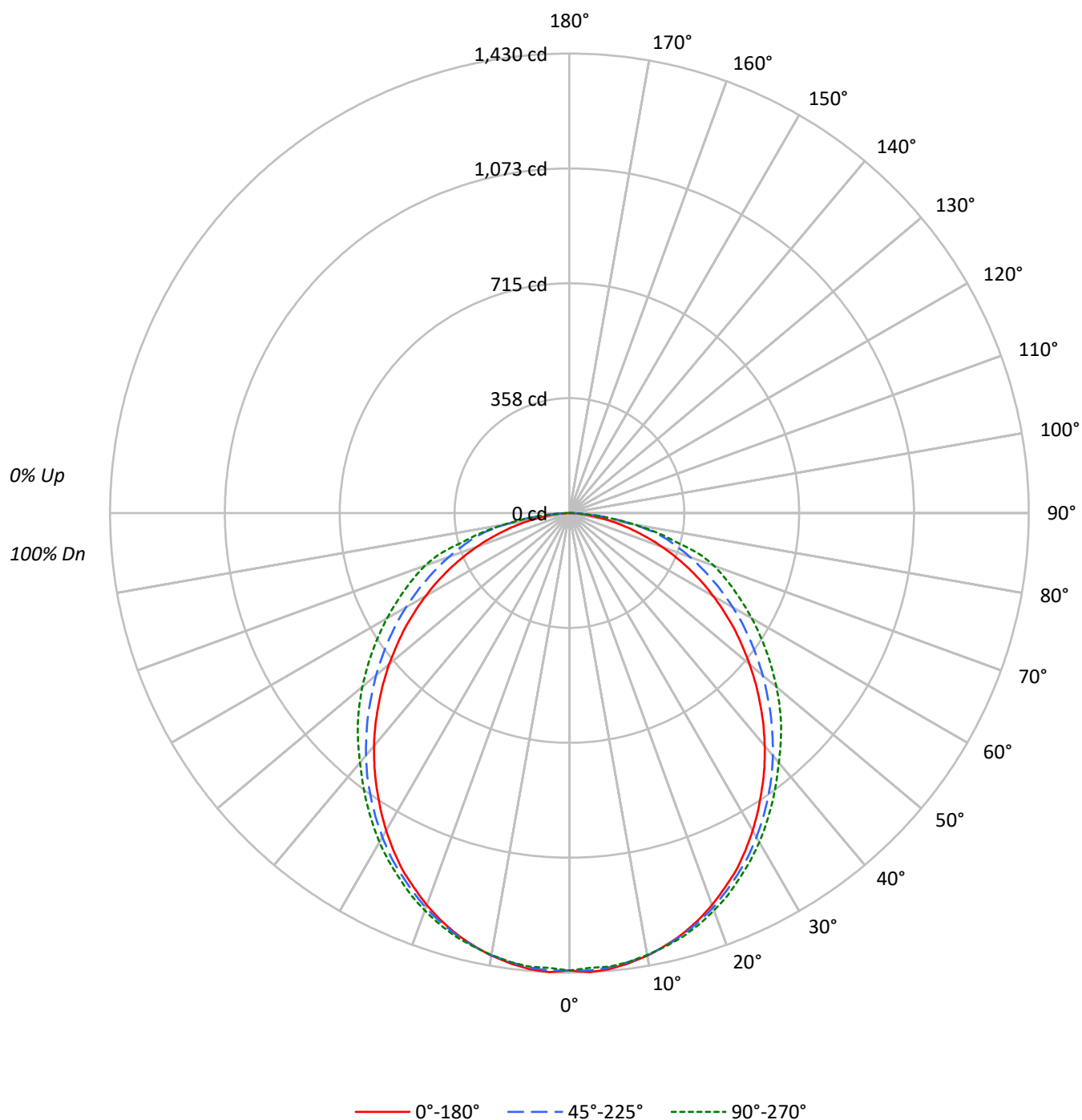
Input Watts (W): 25.32
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1915	1915	1915
5°	1920	1908	1906
10°	1903	1892	1891
15°	1877	1867	1876
20°	1842	1836	1851
25°	1801	1797	1818
30°	1747	1755	1786
35°	1688	1707	1746
40°	1627	1657	1709
45°	1559	1601	1688
50°	1489	1545	1662
55°	1416	1495	1639
60°	1333	1448	1623
65°	1241	1402	1625
70°	1127	1370	1656
75°	977	1357	1479
80°	781	1185	1232
85°	519	767	720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	3.4
10°-20°	382.8	9.7
20°-30°	570.4	14.5
30°-40°	671.5	17.1
40°-50°	682.4	17.4
50°-60°	613.5	15.6
60°-70°	484.7	12.3
70°-80°	307.5	7.8
80°-90°	84.9	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°	1087.8	27.7
0°-40°	1759.3	44.7
0°-60°	3055.2	77.7
0°-90°	3932.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3932.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1424	1424	1424	1424	1424	
5°	1425	1413	1420	1417	1417	135
15°	1357	1350	1359	1363	1365	382
25°	1227	1226	1240	1248	1253	564
35°	1045	1052	1078	1090	1100	654
45°	840	852	886	912	932	648
55°	625	641	686	730	748	559
65°	411	432	491	544	565	407
75°	205	241	313	340	338	219
85°	43	75	80	73	73	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1423.5	1423.5	1423.5	1423.5	1423.5
2.5°	1430.1	1419.6	1424.8	1422.2	1417.0
5°	1424.8	1413.1	1419.6	1417.0	1417.0
7.5°	1413.1	1403.9	1409.1	1407.8	1409.1
10°	1398.7	1389.5	1397.4	1397.4	1396.0
12.5°	1379.0	1371.2	1380.3	1380.3	1381.7
15°	1356.8	1350.3	1359.4	1363.3	1364.6
17.5°	1329.3	1322.8	1334.6	1338.5	1342.4
20°	1297.9	1295.3	1307.1	1311.0	1316.2
22.5°	1262.6	1262.6	1274.4	1279.6	1287.5
25°	1227.3	1226.0	1240.3	1248.2	1253.4
27.5°	1185.4	1186.7	1205.0	1212.9	1219.4
30°	1140.9	1143.5	1164.5	1173.6	1182.8
32.5°	1093.8	1099.0	1122.6	1133.1	1142.2
35°	1045.4	1051.9	1078.1	1089.9	1100.4
37.5°	997.0	1006.1	1033.6	1045.4	1057.2
40°	946.0	953.8	985.2	999.6	1014.0
42.5°	893.6	904.1	935.5	956.4	973.4
45°	840.0	851.8	885.8	911.9	931.6
47.5°	786.3	802.0	834.7	870.1	887.1
50°	732.7	748.4	785.0	824.3	841.3
52.5°	677.7	693.4	735.3	775.9	794.2
55°	625.4	641.1	685.6	730.1	748.4
57.5°	570.5	587.5	637.2	683.0	701.3
60°	516.8	533.8	587.5	635.9	655.5
62.5°	464.5	482.8	539.1	590.1	609.7
65°	410.8	431.8	490.6	544.3	565.2
67.5°	358.5	382.0	443.5	499.8	522.0
70°	306.2	333.6	399.1	456.6	478.9
72.5°	255.1	285.2	354.6	412.1	423.9
75°	205.4	240.7	312.7	340.2	337.6
77.5°	158.3	197.6	265.6	270.8	278.7
80°	115.1	158.3	198.9	209.3	204.1
82.5°	75.9	119.1	142.6	137.4	136.1
85°	43.2	74.6	79.8	73.3	73.3
87.5°	18.3	30.1	26.2	19.6	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)