

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-LD5-45-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-LD5-45-S-UNV-L830-CD1-U
Description: CRUZE 2x4 LED TROFFER

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4291.0 lumens
Efficiency: N/A
Efficacy: 120.2 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

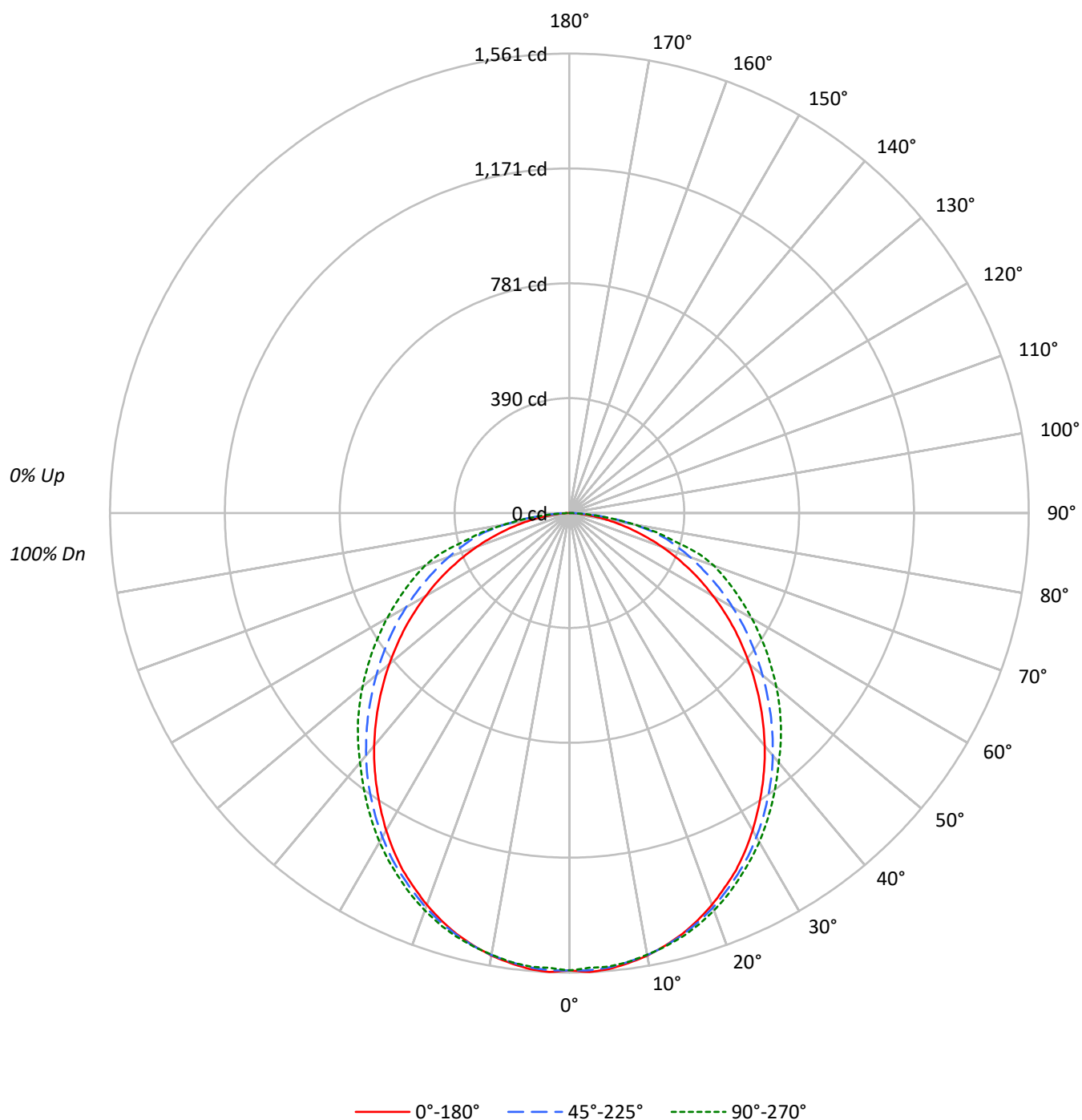
Input Watts (W): 35.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2090	2090	2090
5°	2096	2083	2079
10°	2076	2064	2063
15°	2049	2037	2047
20°	2010	2004	2020
25°	1965	1961	1984
30°	1907	1916	1949
35°	1842	1863	1906
40°	1776	1808	1865
45°	1702	1747	1842
50°	1625	1686	1814
55°	1546	1631	1788
60°	1455	1580	1772
65°	1355	1530	1774
70°	1230	1495	1808
75°	1066	1481	1614
80°	853	1293	1345
85°	566	837	786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	3.4
10°-20°	417.7	9.7
20°-30°	622.5	14.5
30°-40°	732.7	17.1
40°-50°	744.6	17.4
50°-60°	669.5	15.6
60°-70°	528.9	12.3
70°-80°	335.5	7.8
80°-90°	92.6	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°	1187.0	27.7
0°-40°	1919.8	44.7
0°-60°	3333.9	77.7
0°-90°	4291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1555	1542	1549	1546	1546	147
15°	1481	1473	1483	1488	1489	417
25°	1339	1338	1354	1362	1368	616
35°	1141	1148	1176	1189	1201	714
45°	917	930	967	995	1017	707
55°	682	700	748	797	817	609
65°	448	471	535	594	617	444
75°	224	263	341	371	368	239
85°	47	81	87	80	80	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1553.4	1553.4	1553.4	1553.4	1553.4
2.5°	1560.6	1549.2	1554.9	1552.0	1546.3
5°	1554.9	1541.9	1549.2	1546.3	1546.3
7.5°	1541.9	1532.0	1537.7	1536.2	1537.7
10°	1526.3	1516.3	1524.8	1524.8	1523.4
12.5°	1504.9	1496.3	1506.3	1506.3	1507.7
15°	1480.6	1473.4	1483.4	1487.7	1489.1
17.5°	1450.6	1443.4	1456.4	1460.6	1464.9
20°	1416.4	1413.5	1426.3	1430.6	1436.3
22.5°	1377.8	1377.8	1390.6	1396.3	1405.0
25°	1339.2	1337.8	1353.6	1362.1	1367.8
27.5°	1293.5	1294.9	1315.0	1323.5	1330.7
30°	1245.0	1247.8	1270.7	1280.7	1290.7
32.5°	1193.6	1199.3	1225.0	1236.4	1246.4
35°	1140.8	1147.9	1176.5	1189.3	1200.8
37.5°	1087.9	1097.9	1127.9	1140.8	1153.7
40°	1032.3	1040.8	1075.1	1090.8	1106.6
42.5°	975.2	986.6	1020.9	1043.7	1062.3
45°	916.7	929.5	966.6	995.1	1016.6
47.5°	858.1	875.2	911.0	949.4	968.0
50°	799.5	816.7	856.6	899.5	918.1
52.5°	739.6	756.7	802.4	846.6	866.7
55°	682.5	699.6	748.1	796.7	816.7
57.5°	622.5	641.1	695.3	745.3	765.3
60°	564.0	582.5	641.1	693.9	715.4
62.5°	506.8	526.9	588.2	643.9	665.4
65°	448.3	471.2	535.4	593.9	616.8
67.5°	391.2	417.0	484.0	545.4	569.7
70°	334.1	364.0	435.5	498.3	522.6
72.5°	278.4	311.2	386.9	449.7	462.6
75°	224.2	262.7	341.2	371.3	368.4
77.5°	172.8	215.6	289.8	295.5	304.1
80°	125.7	172.8	217.0	228.5	222.8
82.5°	82.8	130.0	155.6	149.9	148.5
85°	47.1	81.4	87.1	80.0	80.0
87.5°	20.0	32.9	28.6	21.4	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)