

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: P261147

Luminaire Tested: **24CZ-LD5-40-S-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261147
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-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4331.0 lumens
Efficiency: N/A
Efficacy: 148.8 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

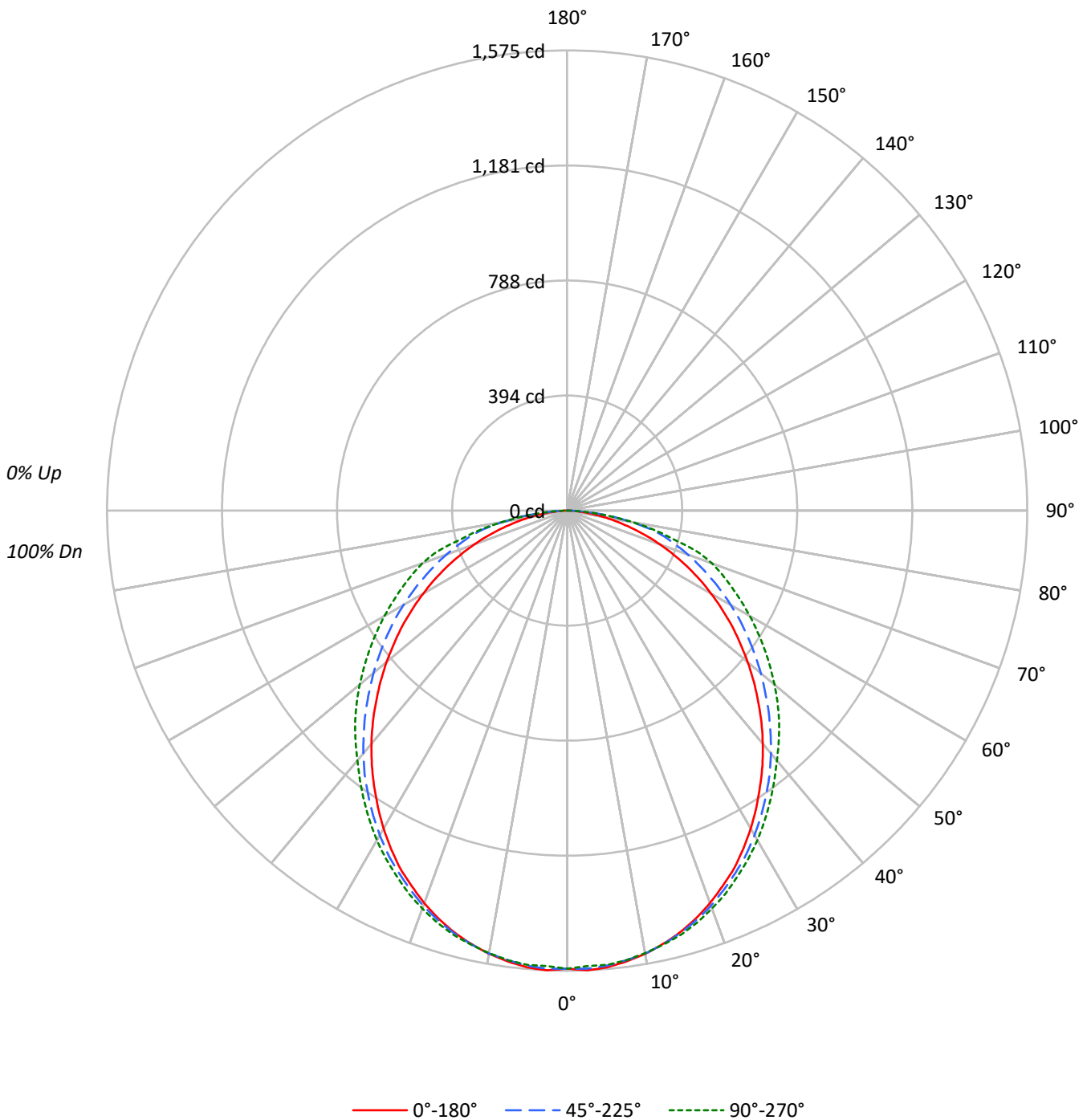
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2110	2110	2110
5°	2120	2112	2108
10°	2105	2103	2101
15°	2082	2086	2094
20°	2047	2061	2076
25°	2007	2028	2050
30°	1952	1993	2024
35°	1891	1951	1991
40°	1830	1906	1962
45°	1760	1856	1952
50°	1689	1810	1940
55°	1616	1771	1934
60°	1532	1741	1943
65°	1441	1720	1982
70°	1327	1729	2075
75°	1176	1790	1933
80°	982	1697	1742
85°	735	1357	1246



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.4
10°-20°	421.6	9.7
20°-30°	628.3	14.5
30°-40°	739.6	17.1
40°-50°	751.6	17.4
50°-60°	675.7	15.6
60°-70°	533.8	12.3
70°-80°	338.7	7.8
80°-90°	93.5	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°	1198.1	27.7
0°-40°	1937.7	44.7
0°-60°	3365.0	77.7
0°-90°	4331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1568	1568	1568	1568	1568	
5°	1569	1556	1564	1561	1561	149
15°	1494	1487	1497	1502	1503	421
25°	1352	1350	1366	1375	1381	622
35°	1151	1159	1188	1200	1212	720
45°	925	938	976	1004	1026	714
55°	689	706	755	804	824	615
65°	452	476	540	600	622	448
75°	226	265	344	375	372	241
85°	48	82	88	81	81	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.9	1567.9	1567.9	1567.9	1567.9
2.5°	1575.1	1563.6	1569.3	1566.5	1560.7
5°	1569.3	1556.4	1563.6	1560.7	1560.7
7.5°	1556.4	1546.3	1552.0	1550.6	1552.0
10°	1540.5	1530.4	1539.1	1539.1	1537.6
12.5°	1518.9	1510.3	1520.3	1520.3	1521.8
15°	1494.4	1487.2	1497.3	1501.6	1503.1
17.5°	1464.1	1456.9	1469.9	1474.2	1478.6
20°	1429.6	1426.7	1439.6	1444.0	1449.7
22.5°	1390.6	1390.6	1403.6	1409.4	1418.0
25°	1351.7	1350.3	1366.1	1374.8	1380.6
27.5°	1305.6	1307.1	1327.2	1335.9	1343.1
30°	1256.6	1259.5	1282.6	1292.7	1302.7
32.5°	1204.7	1210.5	1236.5	1248.0	1258.1
35°	1151.4	1158.6	1187.5	1200.4	1212.0
37.5°	1098.1	1108.2	1138.5	1151.4	1164.4
40°	1041.9	1050.6	1085.1	1101.0	1116.8
42.5°	984.3	995.8	1030.4	1053.4	1072.2
45°	925.2	938.1	975.6	1004.4	1026.1
47.5°	866.1	883.4	919.4	958.3	977.1
50°	807.0	824.3	864.7	907.9	926.6
52.5°	746.5	763.8	809.9	854.6	874.7
55°	688.8	706.1	755.1	804.1	824.3
57.5°	628.3	647.0	701.8	752.2	772.4
60°	569.2	588.0	647.0	700.4	722.0
62.5°	511.6	531.8	593.7	649.9	671.5
65°	452.5	475.6	540.4	599.5	622.5
67.5°	394.9	420.8	488.5	550.5	575.0
70°	337.2	367.5	439.5	502.9	527.4
72.5°	281.0	314.2	390.5	453.9	466.9
75°	226.3	265.2	344.4	374.7	371.8
77.5°	174.4	217.6	292.5	298.3	307.0
80°	126.8	174.4	219.0	230.6	224.8
82.5°	83.6	131.1	157.1	151.3	149.9
85°	47.6	82.1	87.9	80.7	80.7
87.5°	20.2	33.1	28.8	21.6	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)