

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: P261069

Luminaire Tested: **24CZ-LD5-50-S-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261069
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-LD5-50-S-UNV-L93050-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4706.1 lumens
Efficiency: N/A
Efficacy: 128.4 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

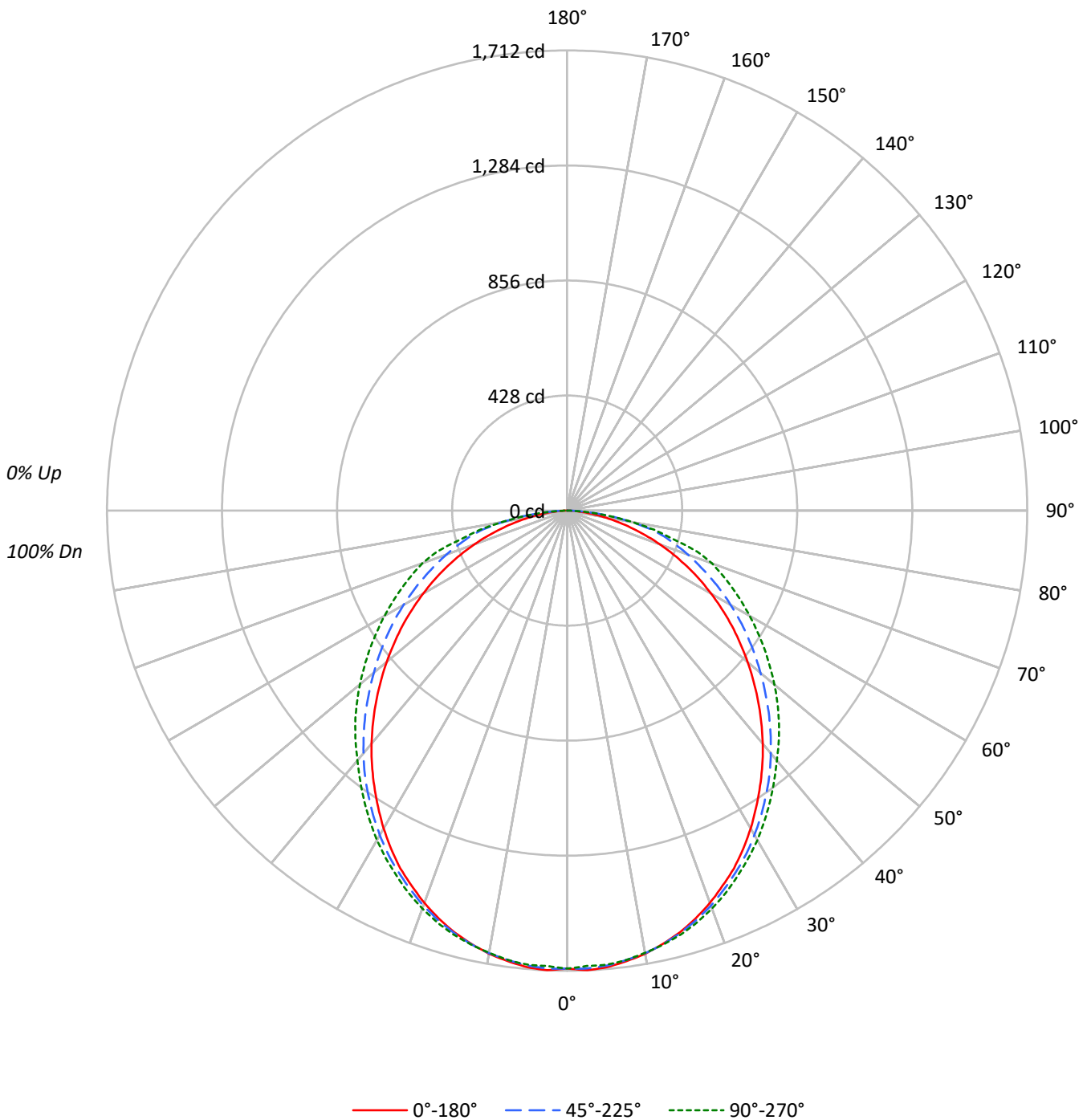
Input Watts (W): 36.640512
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2292	2292	2292
5°	2303	2295	2291
10°	2287	2285	2283
15°	2262	2266	2275
20°	2224	2240	2256
25°	2181	2204	2227
30°	2121	2165	2199
35°	2055	2119	2163
40°	1989	2071	2132
45°	1913	2017	2121
50°	1836	1967	2108
55°	1756	1925	2101
60°	1664	1892	2111
65°	1565	1869	2154
70°	1441	1879	2255
75°	1278	1946	2100
80°	1068	1844	1893
85°	798	1474	1354



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.1	3.4
10°-20°	458.1	9.7
20°-30°	682.7	14.5
30°-40°	803.7	17.1
40°-50°	816.7	17.4
50°-60°	734.2	15.6
60°-70°	580.1	12.3
70°-80°	368.0	7.8
80°-90°	101.6	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°	1301.9	27.7
0°-40°	2105.6	44.7
0°-60°	3656.5	77.7
0°-90°	4706.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4706.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1705	1691	1699	1696	1696	162
15°	1624	1616	1627	1632	1633	457
25°	1469	1467	1484	1494	1500	675
35°	1251	1259	1290	1304	1317	783
45°	1005	1019	1060	1091	1115	776
55°	748	767	820	874	896	668
65°	492	517	587	651	676	487
75°	246	288	374	407	404	262
85°	52	89	96	88	88	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.7	1703.7	1703.7	1703.7	1703.7
2.5°	1711.5	1699.0	1705.3	1702.1	1695.9
5°	1705.3	1691.2	1699.0	1695.9	1695.9
7.5°	1691.2	1680.2	1686.5	1684.9	1686.5
10°	1674.0	1663.0	1672.4	1672.4	1670.8
12.5°	1650.5	1641.1	1652.0	1652.0	1653.6
15°	1623.8	1616.0	1627.0	1631.7	1633.2
17.5°	1591.0	1583.1	1597.2	1601.9	1606.6
20°	1553.4	1550.3	1564.3	1569.0	1575.3
22.5°	1511.1	1511.1	1525.2	1531.5	1540.9
25°	1468.8	1467.3	1484.5	1493.9	1500.1
27.5°	1418.7	1420.3	1442.2	1451.6	1459.4
30°	1365.5	1368.6	1393.7	1404.6	1415.6
32.5°	1309.1	1315.4	1343.6	1356.1	1367.0
35°	1251.2	1259.0	1290.3	1304.4	1316.9
37.5°	1193.2	1204.2	1237.1	1251.2	1265.3
40°	1132.2	1141.5	1179.1	1196.4	1213.6
42.5°	1069.5	1082.0	1119.6	1144.7	1165.0
45°	1005.3	1019.4	1060.1	1091.4	1114.9
47.5°	941.1	959.9	999.1	1041.3	1061.7
50°	876.9	895.7	939.5	986.5	1006.9
52.5°	811.1	829.9	880.0	928.6	950.5
55°	748.5	767.3	820.5	873.8	895.7
57.5°	682.7	703.1	762.6	817.4	839.3
60°	618.5	638.9	703.1	761.0	784.5
62.5°	555.9	577.8	645.2	706.2	729.7
65°	491.7	516.8	587.2	651.4	676.5
67.5°	429.1	457.2	530.8	598.2	624.8
70°	366.4	399.3	477.6	546.5	573.1
72.5°	305.4	341.4	424.4	493.3	507.4
75°	245.8	288.1	374.3	407.1	404.0
77.5°	189.5	236.5	317.9	324.1	333.5
80°	137.8	189.5	238.0	250.5	244.3
82.5°	90.8	142.5	170.7	164.4	162.9
85°	51.7	89.3	95.5	87.7	87.7
87.5°	21.9	36.0	31.3	23.5	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)