

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: P263726

Luminaire Tested: **24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25696)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-75-RDP-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5229.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

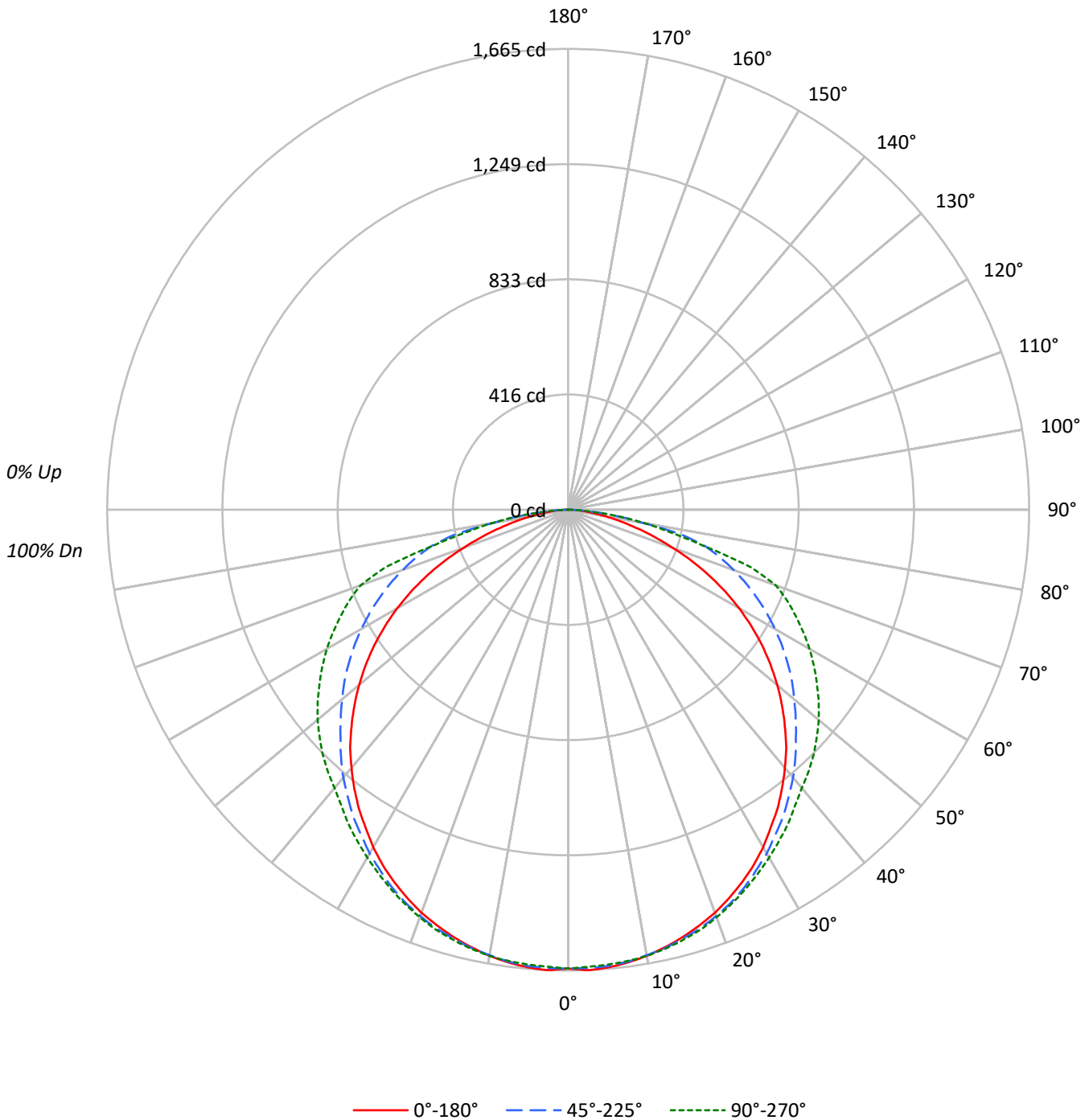
Input Watts (W): 59.055
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	98	94	105	101	97	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	61	73	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	34	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	27
9	55	41	33	27	53	41	32	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2230	2230	2230
5°	2242	2235	2228
10°	2237	2233	2237
15°	2226	2234	2241
20°	2219	2237	2244
25°	2205	2235	2247
30°	2188	2227	2255
35°	2165	2224	2275
40°	2138	2220	2306
45°	2106	2214	2385
50°	2063	2231	2473
55°	2005	2270	2572
60°	1919	2320	2708
65°	1786	2393	2884
70°	1579	2501	3139
75°	1325	2676	2636
80°	1057	2114	2194
85°	835	1431	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	3.0
10°-20°	452.5	8.7
20°-30°	691.1	13.2
30°-40°	845.0	16.2
40°-50°	904.4	17.3
50°-60°	867.5	16.6
60°-70°	732.5	14.0
70°-80°	468.1	9.0
80°-90°	110.7	2.1
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°	1300.8	24.9
0°-40°	2145.8	41.0
0°-60°	3917.7	74.9
0°-90°	5229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1658	1658	1658	1658	1658	
5°	1660	1650	1655	1652	1650	158
15°	1598	1593	1604	1609	1609	451
25°	1485	1483	1506	1511	1514	684
35°	1318	1328	1354	1372	1385	824
45°	1107	1125	1163	1218	1254	854
55°	855	883	968	1055	1096	763
65°	561	615	752	857	906	553
75°	255	363	515	525	507	274
85°	54	90	93	90	85	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1657.6	1657.6	1657.6	1657.6	1657.6
2.5°	1665.4	1655.1	1657.6	1657.6	1652.5
5°	1660.2	1649.9	1655.1	1652.5	1649.9
7.5°	1649.9	1642.2	1647.3	1647.3	1644.8
10°	1637.0	1629.3	1634.5	1637.0	1637.0
12.5°	1619.0	1613.9	1621.6	1621.6	1624.2
15°	1598.4	1593.3	1603.6	1608.7	1608.7
17.5°	1575.3	1572.7	1585.6	1588.1	1590.7
20°	1549.5	1547.0	1562.4	1562.4	1567.5
22.5°	1518.6	1516.1	1536.7	1536.7	1541.8
25°	1485.2	1482.6	1505.8	1510.9	1513.5
27.5°	1449.1	1446.6	1469.7	1477.5	1482.6
30°	1408.0	1408.0	1433.7	1444.0	1451.7
32.5°	1361.6	1369.4	1392.5	1408.0	1418.3
35°	1317.9	1328.2	1353.9	1371.9	1384.8
37.5°	1269.0	1279.3	1307.6	1330.7	1346.2
40°	1217.5	1230.4	1263.8	1289.6	1312.7
42.5°	1166.0	1178.9	1214.9	1253.5	1284.4
45°	1106.8	1124.8	1163.4	1217.5	1253.5
47.5°	1047.6	1065.6	1114.5	1181.5	1217.5
50°	985.8	1006.4	1065.6	1142.8	1181.5
52.5°	921.5	944.6	1019.3	1101.7	1140.3
55°	854.6	882.9	967.8	1055.3	1096.5
57.5°	785.1	815.9	916.3	1009.0	1052.8
60°	713.0	751.6	862.3	960.1	1006.4
62.5°	638.3	684.7	808.2	908.6	957.5
65°	561.1	615.2	751.6	857.1	906.0
67.5°	481.3	553.4	695.0	805.7	854.6
70°	401.5	486.5	635.8	749.0	797.9
72.5°	326.9	424.7	576.6	682.1	692.4
75°	254.8	362.9	514.8	525.1	507.1
77.5°	190.5	301.2	424.7	378.4	375.8
80°	136.4	242.0	272.8	280.6	283.1
82.5°	90.1	182.8	177.6	182.8	180.2
85°	54.1	90.1	92.7	90.1	84.9
87.5°	25.7	33.5	25.7	23.2	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)