

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: P263710

Luminaire Tested: **24CZ-LD5-65-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263710
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-LD5-65-RDP-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4677.0 lumens
Efficiency: N/A
Efficacy: 93.5 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

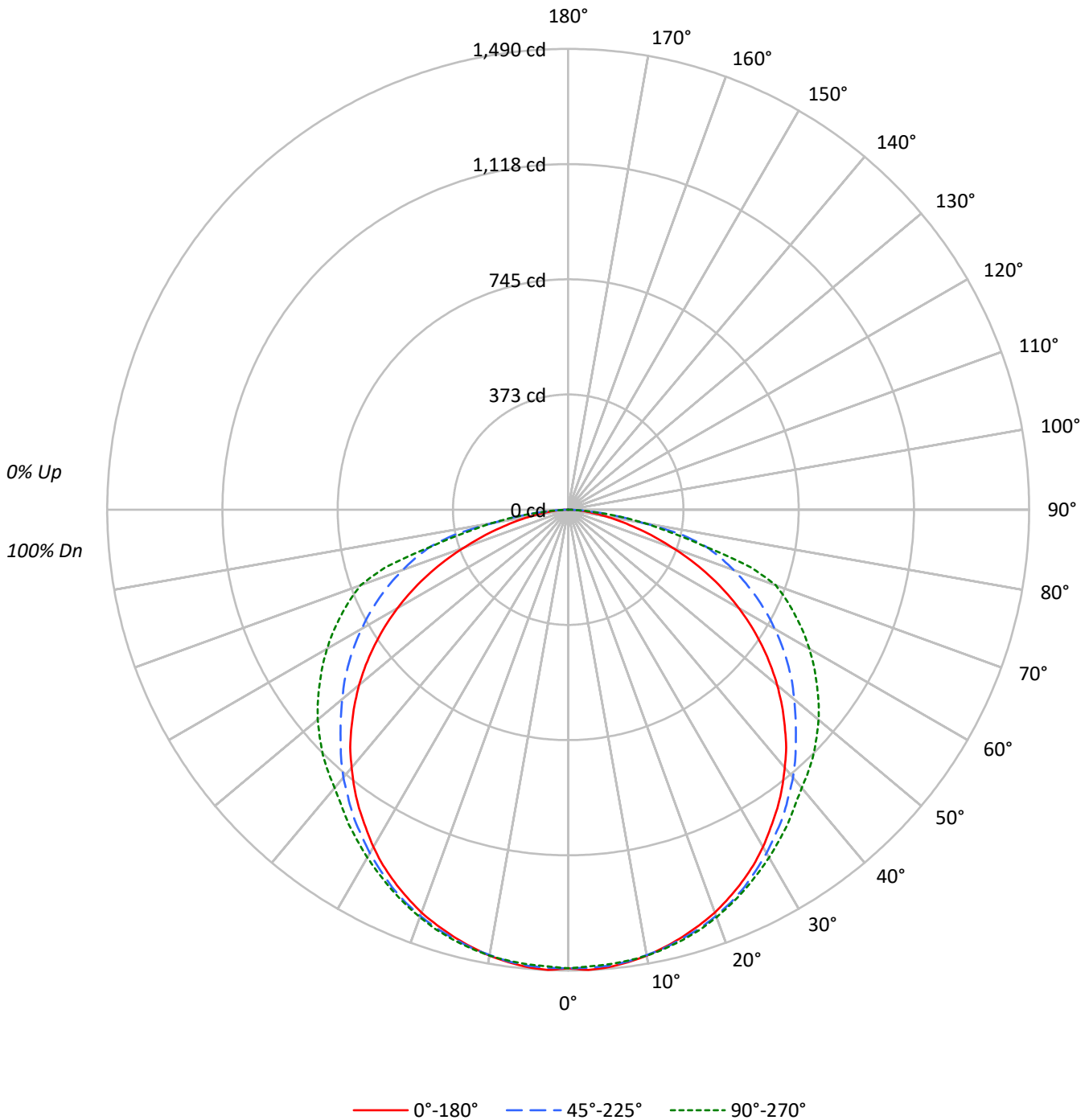
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	62	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°	1995	1995	1995
5°	2006	1999	1993
10°	2000	1997	2000
15°	1992	1998	2004
20°	1985	2001	2008
25°	1972	1999	2010
30°	1956	1992	2017
35°	1936	1989	2034
40°	1913	1985	2062
45°	1884	1980	2133
50°	1846	1995	2212
55°	1793	2031	2301
60°	1716	2076	2422
65°	1598	2140	2580
70°	1413	2237	2808
75°	1185	2393	2358
80°	945	1891	1962
85°	746	1280	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.6	3.0
10°-20°	404.7	8.7
20°-30°	618.2	13.2
30°-40°	755.7	16.2
40°-50°	808.9	17.3
50°-60°	775.9	16.6
60°-70°	655.2	14.0
70°-80°	418.7	9.0
80°-90°	99.0	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°	1163.5	24.9
0°-40°	1919.2	41.0
0°-60°	3504.1	74.9
0°-90°	4677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1483	1483	1483	1483	1483	
5°	1485	1476	1480	1478	1476	141
15°	1430	1425	1434	1439	1439	404
25°	1328	1326	1347	1351	1354	612
35°	1179	1188	1211	1227	1239	737
45°	990	1006	1041	1089	1121	764
55°	764	790	866	944	981	682
65°	502	550	672	767	810	495
75°	228	325	460	470	454	245
85°	48	81	83	81	76	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1482.6	1482.6	1482.6	1482.6	1482.6
2.5°	1489.6	1480.3	1482.6	1482.6	1478.0
5°	1485.0	1475.7	1480.3	1478.0	1475.7
7.5°	1475.7	1468.8	1473.4	1473.4	1471.1
10°	1464.2	1457.3	1461.9	1464.2	1464.2
12.5°	1448.1	1443.5	1450.4	1450.4	1452.7
15°	1429.7	1425.1	1434.3	1438.9	1438.9
17.5°	1409.0	1406.7	1418.2	1420.5	1422.8
20°	1386.0	1383.7	1397.5	1397.5	1402.1
22.5°	1358.3	1356.0	1374.4	1374.4	1379.0
25°	1328.4	1326.1	1346.8	1351.4	1353.7
27.5°	1296.2	1293.9	1314.6	1321.5	1326.1
30°	1259.3	1259.3	1282.4	1291.6	1298.5
32.5°	1217.9	1224.8	1245.5	1259.3	1268.5
35°	1178.8	1188.0	1211.0	1227.1	1238.6
37.5°	1135.0	1144.2	1169.5	1190.3	1204.1
40°	1089.0	1100.5	1130.4	1153.4	1174.1
42.5°	1042.9	1054.4	1086.7	1121.2	1148.8
45°	990.0	1006.1	1040.6	1089.0	1121.2
47.5°	937.0	953.1	996.9	1056.7	1089.0
50°	881.8	900.2	953.1	1022.2	1056.7
52.5°	824.2	844.9	911.7	985.4	1019.9
55°	764.3	789.7	865.6	943.9	980.8
57.5°	702.2	729.8	819.6	902.5	941.6
60°	637.7	672.3	771.3	858.7	900.2
62.5°	571.0	612.4	722.9	812.7	856.4
65°	501.9	550.2	672.3	766.6	810.4
67.5°	430.5	495.0	621.6	720.6	764.3
70°	359.2	435.1	568.7	670.0	713.7
72.5°	292.4	379.9	515.7	610.1	619.3
75°	227.9	324.6	460.4	469.7	453.5
77.5°	170.4	269.4	379.9	338.4	336.1
80°	122.0	216.4	244.0	250.9	253.2
82.5°	80.6	163.5	158.9	163.5	161.2
85°	48.3	80.6	82.9	80.6	76.0
87.5°	23.0	29.9	23.0	20.7	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)