

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: P263682

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263682
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-LD5-50-RDP-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3549.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

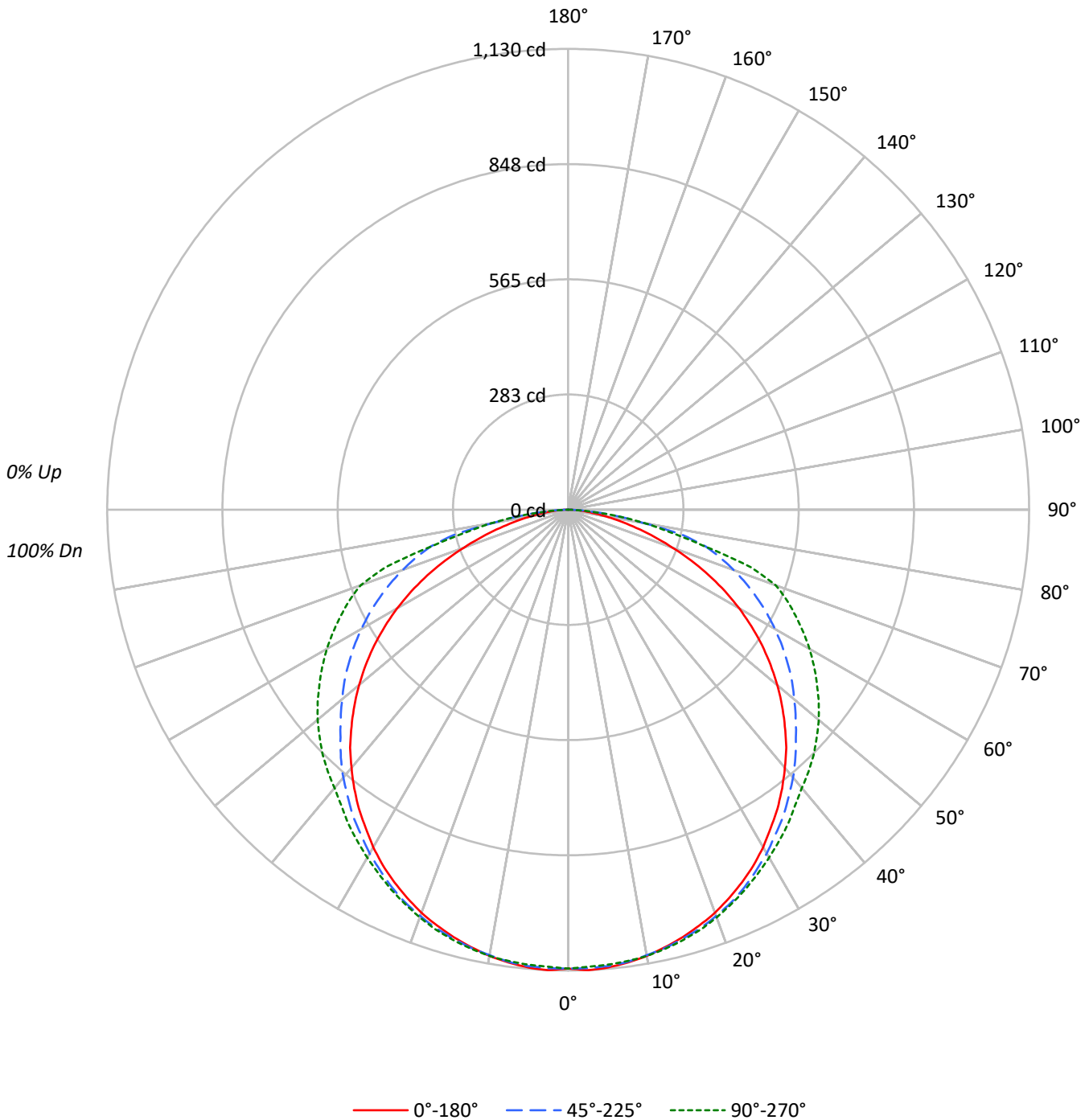
Input Watts (W): 36.363
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1514	1514	1514
5°	1522	1517	1512
10°	1518	1516	1518
15°	1511	1516	1521
20°	1506	1518	1523
25°	1496	1517	1525
30°	1485	1512	1531
35°	1469	1509	1544
40°	1451	1507	1565
45°	1429	1502	1619
50°	1401	1514	1679
55°	1361	1541	1746
60°	1302	1575	1838
65°	1212	1624	1958
70°	1072	1697	2131
75°	899	1816	1789
80°	717	1435	1489
85°	567	971	891



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.0
10°-20°	307.1	8.7
20°-30°	469.1	13.2
30°-40°	573.5	16.2
40°-50°	613.8	17.3
50°-60°	588.8	16.6
60°-70°	497.1	14.0
70°-80°	317.7	9.0
80°-90°	75.1	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°	882.9	24.9
0°-40°	1456.4	41.0
0°-60°	2659.0	74.9
0°-90°	3549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1127	1120	1123	1122	1120	107
15°	1085	1081	1088	1092	1092	306
25°	1008	1006	1022	1026	1027	465
35°	894	901	919	931	940	559
45°	751	763	790	826	851	579
55°	580	599	657	716	744	518
65°	381	418	510	582	615	376
75°	173	246	349	356	344	186
85°	37	61	63	61	58	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1125.1	1125.1	1125.1	1125.1	1125.1
2.5°	1130.3	1123.3	1125.1	1125.1	1121.6
5°	1126.8	1119.8	1123.3	1121.6	1119.8
7.5°	1119.8	1114.6	1118.1	1118.1	1116.3
10°	1111.1	1105.8	1109.3	1111.1	1111.1
12.5°	1098.9	1095.4	1100.6	1100.6	1102.4
15°	1084.9	1081.4	1088.4	1091.9	1091.9
17.5°	1069.2	1067.4	1076.1	1077.9	1079.6
20°	1051.7	1049.9	1060.4	1060.4	1063.9
22.5°	1030.7	1029.0	1043.0	1043.0	1046.4
25°	1008.0	1006.3	1022.0	1025.5	1027.2
27.5°	983.6	981.8	997.5	1002.8	1006.3
30°	955.6	955.6	973.1	980.1	985.3
32.5°	924.2	929.4	945.1	955.6	962.6
35°	894.5	901.4	918.9	931.1	939.9
37.5°	861.3	868.3	887.5	903.2	913.7
40°	826.3	835.1	857.8	875.2	891.0
42.5°	791.4	800.1	824.6	850.8	871.7
45°	751.2	763.4	789.6	826.3	850.8
47.5°	711.0	723.3	756.4	801.9	826.3
50°	669.1	683.1	723.3	775.7	801.9
52.5°	625.4	641.1	691.8	747.7	773.9
55°	580.0	599.2	656.9	716.3	744.2
57.5°	532.8	553.8	621.9	684.8	714.5
60°	483.9	510.1	585.2	651.6	683.1
62.5°	433.3	464.7	548.6	616.7	649.9
65°	380.8	417.5	510.1	581.7	614.9
67.5°	326.7	375.6	471.7	546.8	580.0
70°	272.5	330.2	431.5	508.4	541.6
72.5°	221.9	288.3	391.3	463.0	469.9
75°	173.0	246.3	349.4	356.4	344.2
77.5°	129.3	204.4	288.3	256.8	255.1
80°	92.6	164.2	185.2	190.4	192.2
82.5°	61.1	124.0	120.5	124.0	122.3
85°	36.7	61.1	62.9	61.1	57.7
87.5°	17.5	22.7	17.5	15.7	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)