

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: P263514

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263514
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-L83050-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: 3668.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

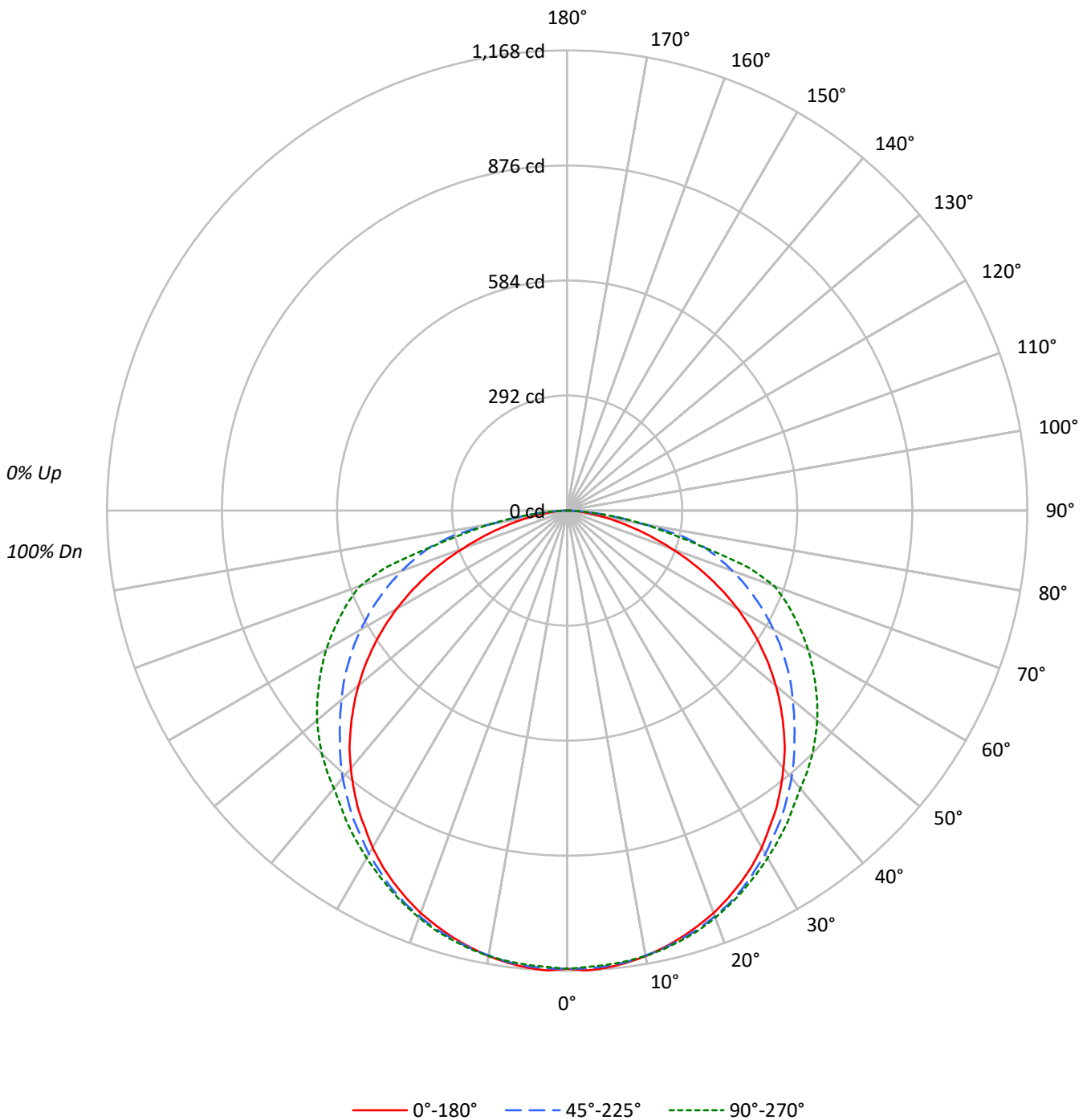
Input Watts (W): 36.533376
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1565	1565	1565
5°	1573	1568	1563
10°	1569	1566	1569
15°	1562	1567	1572
20°	1556	1569	1574
25°	1547	1568	1576
30°	1534	1562	1582
35°	1519	1560	1596
40°	1500	1557	1617
45°	1477	1553	1673
50°	1447	1565	1735
55°	1406	1593	1804
60°	1346	1628	1900
65°	1253	1678	2024
70°	1108	1755	2202
75°	930	1877	1849
80°	742	1483	1539
85°	585	1003	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.3	3.0
10°-20°	317.4	8.7
20°-30°	484.8	13.2
30°-40°	592.7	16.2
40°-50°	634.4	17.3
50°-60°	608.5	16.6
60°-70°	513.8	14.0
70°-80°	328.4	9.0
80°-90°	77.7	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°	912.5	24.9
0°-40°	1505.2	41.0
0°-60°	2748.2	74.9
0°-90°	3668.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3668.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1163	1163	1163	1163	1163	
5°	1165	1157	1161	1159	1157	111
15°	1121	1118	1125	1128	1128	317
25°	1042	1040	1056	1060	1062	480
35°	924	932	950	962	971	578
45°	776	789	816	854	879	599
55°	599	619	679	740	769	535
65°	394	432	527	601	636	388
75°	179	255	361	368	356	192
85°	38	63	65	63	60	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1162.8	1162.8	1162.8	1162.8	1162.8
2.5°	1168.2	1161.0	1162.8	1162.8	1159.2
5°	1164.6	1157.4	1161.0	1159.2	1157.4
7.5°	1157.4	1152.0	1155.6	1155.6	1153.8
10°	1148.3	1142.9	1146.5	1148.3	1148.3
12.5°	1135.7	1132.1	1137.5	1137.5	1139.3
15°	1121.3	1117.6	1124.9	1128.5	1128.5
17.5°	1105.0	1103.2	1112.2	1114.0	1115.8
20°	1087.0	1085.1	1096.0	1096.0	1099.6
22.5°	1065.3	1063.5	1077.9	1077.9	1081.5
25°	1041.8	1040.0	1056.3	1059.9	1061.7
27.5°	1016.5	1014.7	1031.0	1036.4	1040.0
30°	987.6	987.6	1005.7	1012.9	1018.3
32.5°	955.1	960.6	976.8	987.6	994.9
35°	924.5	931.7	949.7	962.4	971.4
37.5°	890.1	897.4	917.2	933.5	944.3
40°	854.0	863.1	886.5	904.6	920.8
42.5°	817.9	827.0	852.2	879.3	901.0
45°	776.4	789.0	816.1	854.0	879.3
47.5°	734.9	747.5	781.8	828.8	854.0
50°	691.5	706.0	747.5	801.7	828.8
52.5°	646.4	662.6	715.0	772.8	799.9
55°	599.4	619.3	678.9	740.3	769.2
57.5°	550.7	572.4	642.8	707.8	738.5
60°	500.1	527.2	604.9	673.5	706.0
62.5°	447.8	480.3	566.9	637.4	671.7
65°	393.6	431.5	527.2	601.3	635.6
67.5°	337.6	388.2	487.5	565.1	599.4
70°	281.7	341.3	446.0	525.4	559.7
72.5°	229.3	297.9	404.4	478.5	485.7
75°	178.8	254.6	361.1	368.3	355.7
77.5°	133.6	211.3	297.9	265.4	263.6
80°	95.7	169.7	191.4	196.8	198.6
82.5°	63.2	128.2	124.6	128.2	126.4
85°	37.9	63.2	65.0	63.2	59.6
87.5°	18.1	23.5	18.1	16.3	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)