

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: P263686

Luminaire Tested: **24CZ-LD5-50-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263686
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-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3652.0 lumens
Efficiency: N/A
Efficacy: 97.9 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

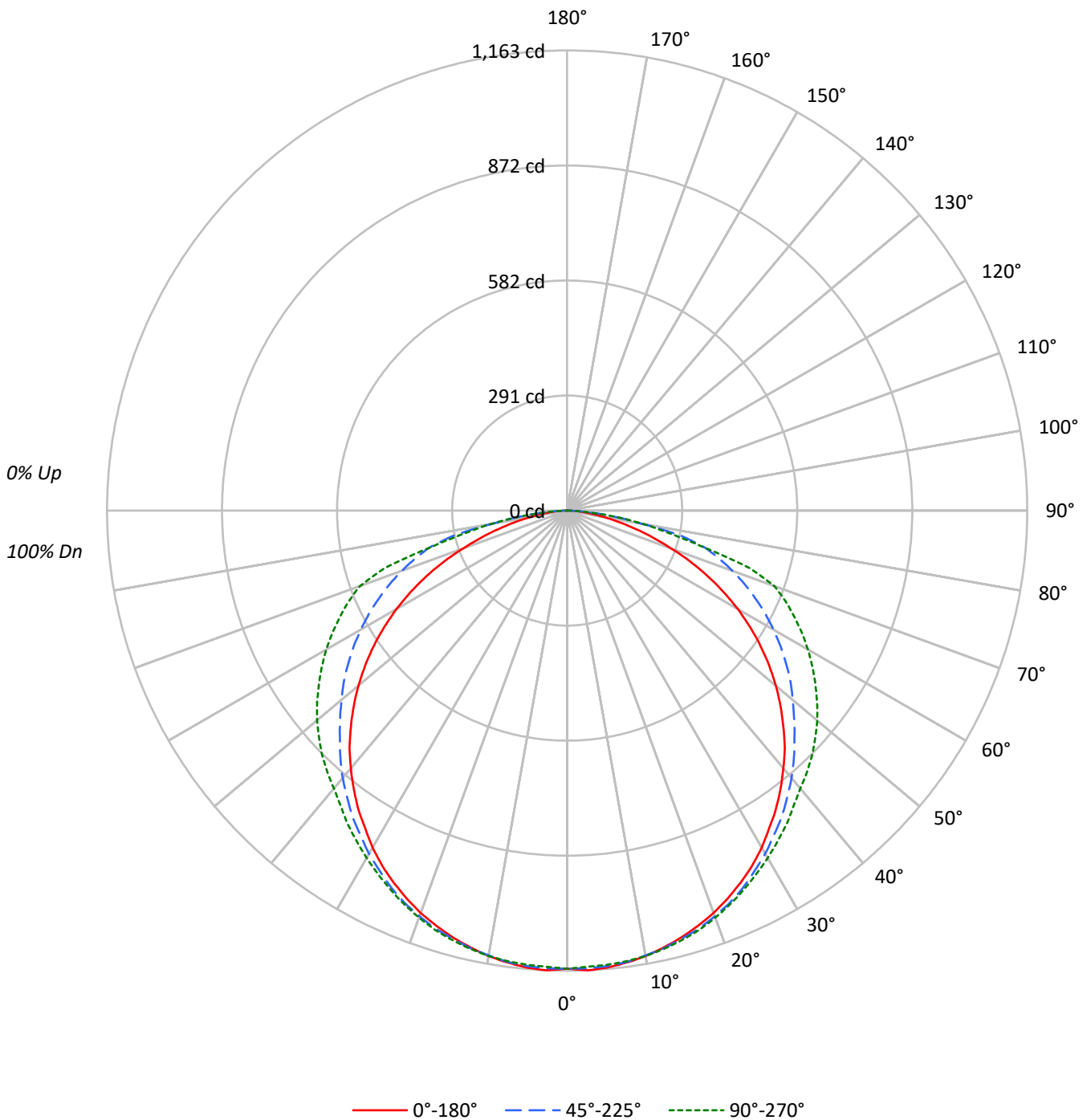
Input Watts (W): 37.293
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1558	1558	1558
5°	1566	1561	1556
10°	1562	1560	1562
15°	1555	1560	1565
20°	1550	1562	1568
25°	1540	1561	1569
30°	1528	1556	1575
35°	1512	1553	1589
40°	1493	1550	1610
45°	1471	1546	1666
50°	1441	1558	1727
55°	1400	1586	1796
60°	1340	1621	1891
65°	1248	1671	2015
70°	1103	1747	2192
75°	925	1869	1841
80°	738	1477	1532
85°	584	999	915



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.8	3.0
10°-20°	316.0	8.7
20°-30°	482.7	13.2
30°-40°	590.1	16.2
40°-50°	631.7	17.3
50°-60°	605.9	16.6
60°-70°	511.6	14.0
70°-80°	326.9	9.0
80°-90°	77.3	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°	908.5	24.9
0°-40°	1498.6	41.0
0°-60°	2736.2	74.9
0°-90°	3652.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1160	1152	1156	1154	1152	110
15°	1116	1113	1120	1124	1124	315
25°	1037	1036	1052	1055	1057	478
35°	920	928	946	958	967	575
45°	773	786	813	850	876	596
55°	597	617	676	737	766	533
65°	392	430	525	599	633	387
75°	178	254	360	367	354	192
85°	38	63	65	63	59	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.7	1157.7	1157.7	1157.7	1157.7
2.5°	1163.1	1155.9	1157.7	1157.7	1154.1
5°	1159.5	1152.3	1155.9	1154.1	1152.3
7.5°	1152.3	1146.9	1150.5	1150.5	1148.7
10°	1143.3	1137.9	1141.5	1143.3	1143.3
12.5°	1130.7	1127.2	1132.5	1132.5	1134.3
15°	1116.4	1112.8	1120.0	1123.6	1123.6
17.5°	1100.2	1098.4	1107.4	1109.2	1111.0
20°	1082.2	1080.4	1091.2	1091.2	1094.8
22.5°	1060.6	1058.8	1073.2	1073.2	1076.8
25°	1037.3	1035.5	1051.7	1055.2	1057.0
27.5°	1012.1	1010.3	1026.5	1031.9	1035.5
30°	983.3	983.3	1001.3	1008.5	1013.9
32.5°	951.0	956.4	972.6	983.3	990.5
35°	920.4	927.6	945.6	958.2	967.2
37.5°	886.3	893.5	913.2	929.4	940.2
40°	850.3	859.3	882.7	900.6	916.8
42.5°	814.4	823.3	848.5	875.5	897.0
45°	773.0	785.6	812.6	850.3	875.5
47.5°	731.7	744.2	778.4	825.1	850.3
50°	688.5	702.9	744.2	798.2	825.1
52.5°	643.6	659.8	711.9	769.4	796.4
55°	596.8	616.6	675.9	737.1	765.8
57.5°	548.3	569.9	640.0	704.7	735.3
60°	498.0	524.9	602.2	670.5	702.9
62.5°	445.8	478.2	564.5	634.6	668.7
65°	391.9	429.6	524.9	598.6	632.8
67.5°	336.2	386.5	485.4	562.7	596.8
70°	280.4	339.8	444.0	523.1	557.3
72.5°	228.3	296.6	402.7	476.4	483.6
75°	178.0	253.5	359.5	366.7	354.1
77.5°	133.0	210.3	296.6	264.3	262.5
80°	95.3	169.0	190.6	195.9	197.7
82.5°	62.9	127.6	124.0	127.6	125.8
85°	37.8	62.9	64.7	62.9	59.3
87.5°	18.0	23.4	18.0	16.2	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)