

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: P277148

Luminaire Tested: **24CZ2-50-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277148
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-RDP-UNV-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2942.0 lumens
Efficiency: N/A
Efficacy: 72.4 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

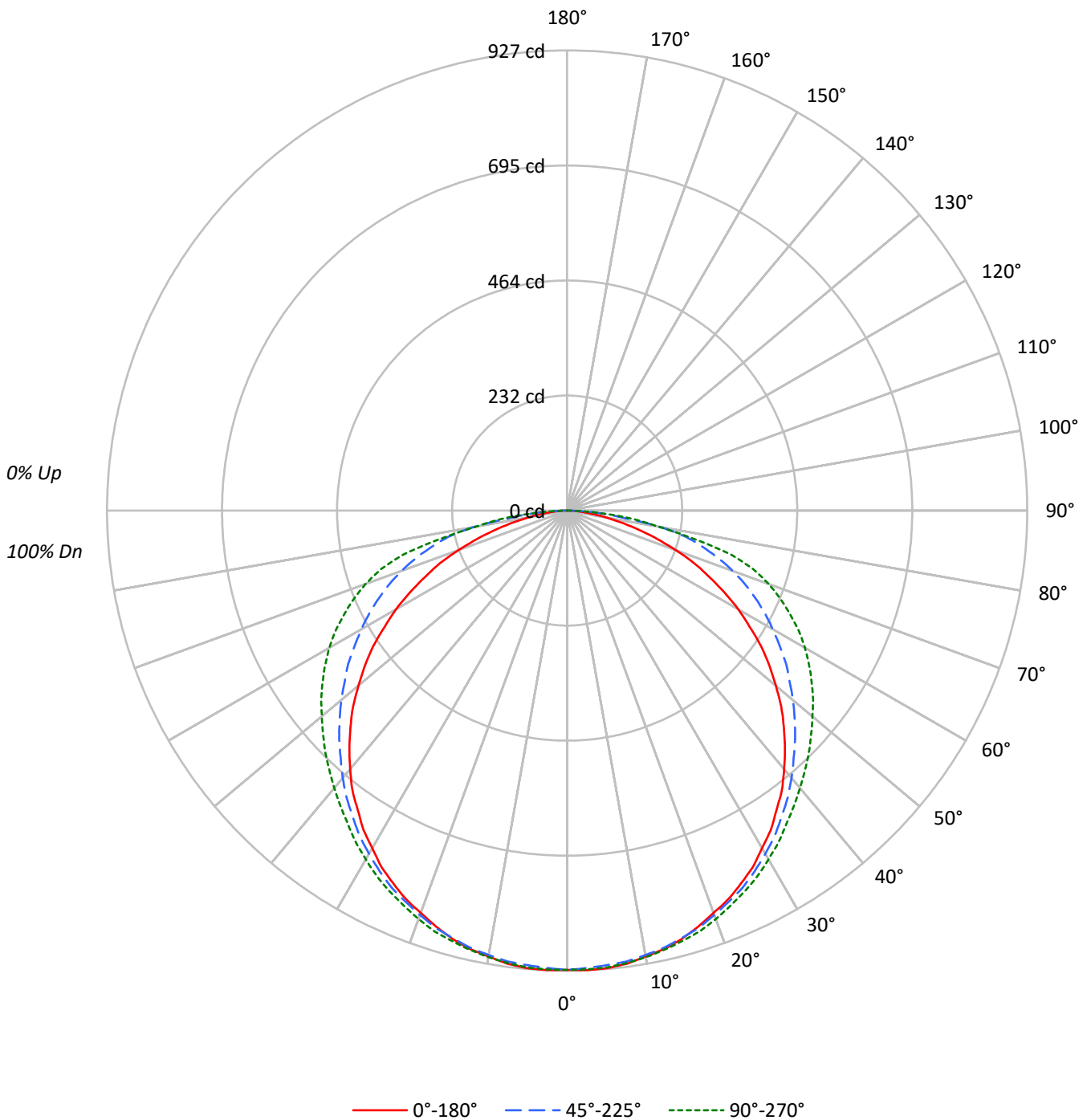
Input Watts (W): 40.641
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	92	96	93	89	92	89	87	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1245	1245	1245
5°	1250	1242	1248
10°	1246	1242	1248
15°	1244	1242	1250
20°	1235	1241	1254
25°	1231	1243	1257
30°	1220	1240	1261
35°	1208	1237	1266
40°	1194	1235	1281
45°	1175	1236	1311
50°	1149	1243	1350
55°	1119	1263	1410
60°	1072	1288	1488
65°	1004	1333	1579
70°	913	1395	1699
75°	774	1472	1775
80°	611	1481	1436
85°	451	1127	1261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.0
10°-20°	252.6	8.6
20°-30°	386.2	13.1
30°-40°	472.2	16.0
40°-50°	503.2	17.1
50°-60°	481.2	16.4
60°-70°	407.6	13.9
70°-80°	274.0	9.3
80°-90°	77.3	2.6
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°	726.6	24.7
0°-40°	1198.8	40.7
0°-60°	2183.2	74.2
0°-90°	2942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	925	925	925	925	925	
5°	925	924	919	924	924	88
15°	893	893	892	899	897	252
25°	829	832	838	845	846	382
35°	736	741	753	768	770	461
45°	617	628	649	677	689	476
55°	477	495	538	581	601	425
65°	315	347	419	474	496	313
75°	149	203	283	331	342	159
85°	29	60	73	79	82	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	925.2	925.2	925.2	925.2	925.2
2.5°	926.6	926.6	922.3	925.2	925.2
5°	925.2	923.7	919.3	923.7	923.7
7.5°	920.8	919.3	916.4	920.8	919.3
10°	912.0	912.0	909.1	913.5	913.5
12.5°	904.7	903.3	901.8	907.7	906.2
15°	893.1	893.1	891.6	898.9	897.4
17.5°	878.5	879.9	881.4	887.2	888.7
20°	862.4	865.3	866.8	875.6	875.6
22.5°	847.8	849.3	852.2	861.0	861.0
25°	828.9	831.8	837.6	844.9	846.4
27.5°	809.9	811.4	818.6	828.9	830.3
30°	785.1	789.5	798.2	809.9	811.4
32.5°	763.2	767.6	777.8	789.5	792.4
35°	735.5	741.3	753.0	767.6	770.5
37.5°	710.7	715.0	729.6	745.7	750.1
40°	680.0	688.8	703.4	722.3	729.6
42.5°	649.4	658.1	675.6	700.4	709.2
45°	617.3	627.5	649.4	677.1	688.8
47.5°	585.2	596.8	621.6	653.8	666.9
50°	548.7	563.3	593.9	630.4	645.0
52.5°	513.7	531.2	564.7	605.6	624.6
55°	477.2	494.7	538.5	580.8	601.2
57.5°	436.3	459.7	507.8	556.0	577.9
60°	398.4	420.3	478.6	531.2	553.1
62.5°	357.5	386.7	449.5	504.9	526.8
65°	315.2	347.3	418.8	474.3	496.1
67.5°	277.3	312.3	388.2	443.6	465.5
70°	232.0	275.8	354.6	410.1	431.9
72.5°	189.7	237.9	319.6	373.6	394.0
75°	148.8	202.8	283.1	331.3	341.5
77.5°	110.9	167.8	245.2	265.6	258.3
80°	78.8	134.3	191.2	180.9	185.3
82.5°	51.1	102.1	118.2	134.3	138.6
85°	29.2	59.8	73.0	78.8	81.7
87.5°	13.1	21.9	29.2	29.2	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)