

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: P276023

Luminaire Tested: **24CZ2-35-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2860.2 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

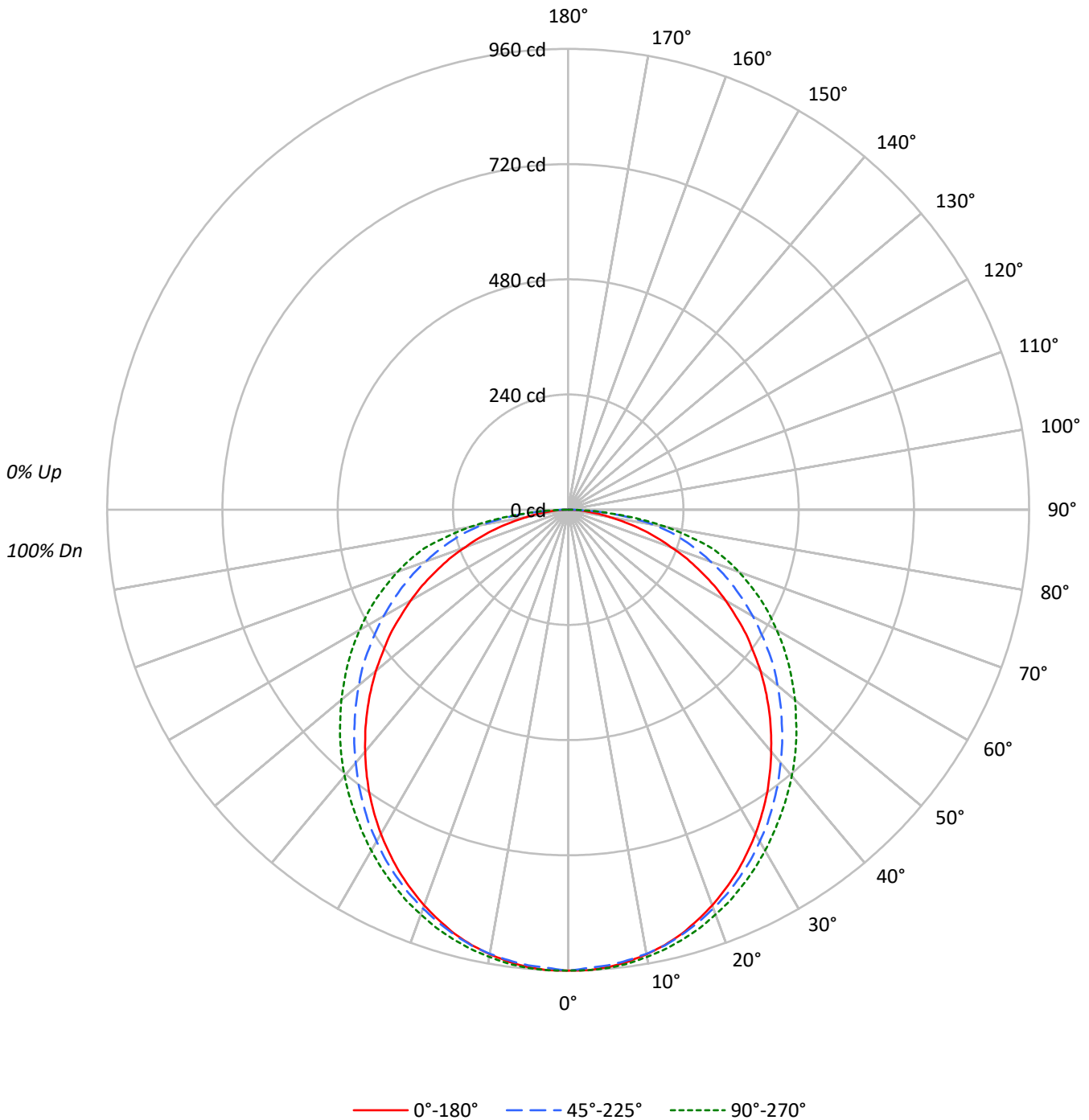
Input Watts (W): 26.53476
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	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	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1292	1292	1292
5°	1292	1287	1294
10°	1285	1283	1292
15°	1274	1277	1290
20°	1256	1266	1285
25°	1236	1254	1280
30°	1212	1240	1274
35°	1185	1225	1270
40°	1155	1209	1273
45°	1126	1197	1279
50°	1095	1191	1291
55°	1061	1189	1314
60°	1020	1195	1348
65°	967	1213	1407
70°	897	1243	1487
75°	819	1305	1613
80°	673	1406	1612
85°	516	1297	1385



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.8	3.2
10°-20°	259.3	9.1
20°-30°	390.2	13.6
30°-40°	467.6	16.3
40°-50°	487.3	17.0
50°-60°	453.4	15.9
60°-70°	373.4	13.1
70°-80°	254.3	8.9
80°-90°	84.0	2.9
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°	740.3	25.9
0°-40°	1207.9	42.2
0°-60°	2148.5	75.1
0°-90°	2860.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2860.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	956	956	953	957	958	91
15°	914	915	916	925	926	258
25°	832	836	845	859	862	383
35°	722	730	746	766	773	451
45°	592	604	629	661	672	456
55°	452	468	507	547	560	403
65°	304	329	381	426	442	301
75°	158	193	251	296	310	166
85°	33	65	84	90	90	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.3	960.3	960.3	960.3	960.3
2.5°	960.3	960.3	955.5	960.3	960.3
5°	956.5	956.5	952.7	957.4	958.4
7.5°	949.8	950.8	946.9	952.7	953.6
10°	940.3	941.2	939.3	945.0	946.0
12.5°	928.8	929.8	929.8	936.4	937.4
15°	914.5	915.4	916.4	925.0	925.9
17.5°	896.3	899.2	901.1	911.6	913.5
20°	877.2	880.1	883.9	895.4	897.3
22.5°	855.3	859.1	865.8	878.2	881.1
25°	832.4	836.2	844.8	859.1	862.0
27.5°	806.6	812.3	822.8	838.1	841.9
30°	779.9	785.6	798.0	814.2	820.0
32.5°	751.2	758.9	773.2	791.3	797.1
35°	721.7	730.2	745.5	765.6	773.2
37.5°	690.2	699.7	717.8	739.8	749.3
40°	657.7	669.2	688.2	714.0	724.5
42.5°	625.2	635.7	659.6	687.3	698.7
45°	591.8	604.2	629.1	660.6	672.0
47.5°	557.5	569.9	599.5	632.9	643.4
50°	523.1	535.5	568.9	604.2	616.7
52.5°	485.9	502.1	540.3	575.6	588.0
55°	452.5	467.7	506.9	547.0	560.3
57.5°	414.3	432.4	475.4	517.4	531.7
60°	379.0	398.1	443.9	486.8	501.1
62.5°	342.7	363.7	412.4	456.3	472.5
65°	303.6	329.3	380.9	425.7	442.0
67.5°	268.2	295.0	349.4	395.2	409.5
70°	228.1	260.6	316.0	361.8	378.0
72.5°	193.8	226.2	284.5	329.3	345.6
75°	157.5	192.8	251.1	295.9	310.2
77.5°	121.2	160.4	218.6	253.0	257.7
80°	86.9	127.9	181.4	201.4	208.1
82.5°	61.1	98.3	133.6	147.0	150.8
85°	33.4	64.9	84.0	89.7	89.7
87.5°	14.3	27.7	33.4	34.4	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)