

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: P276803

Luminaire Tested: **24CZ2-50-RDP-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276803
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-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3182.0 lumens
Efficiency: N/A
Efficacy: 80.1 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

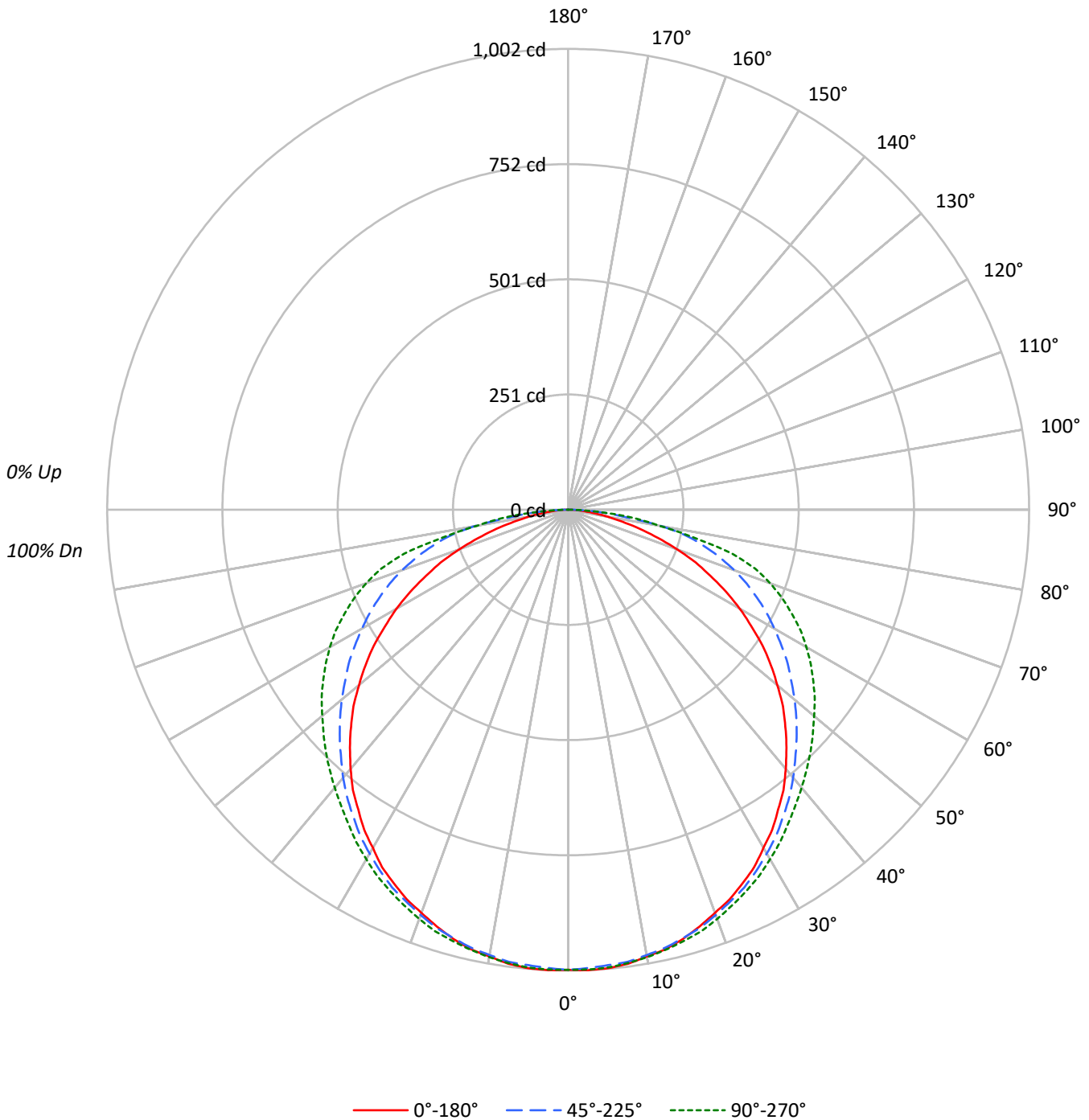
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276803

CATALOG NUMBER: 24CZ2-50-RDP-UNV-L83050-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P276803

CATALOG NUMBER: 24CZ2-50-RDP-UNV-L83050-W2A1-U-3500K

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°	1346	1346	1346
5°	1351	1343	1349
10°	1348	1343	1350
15°	1345	1343	1352
20°	1336	1342	1356
25°	1331	1345	1359
30°	1319	1341	1363
35°	1307	1338	1369
40°	1292	1336	1386
45°	1270	1336	1418
50°	1242	1345	1460
55°	1211	1366	1525
60°	1160	1393	1610
65°	1085	1442	1708
70°	987	1509	1838
75°	837	1592	1920
80°	660	1602	1553
85°	488	1218	1365



TEST NUMBER: P276803

CATALOG NUMBER: 24CZ2-50-RDP-UNV-L83050-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.0
10°-20°	273.2	8.6
20°-30°	417.7	13.1
30°-40°	510.7	16.0
40°-50°	544.3	17.1
50°-60°	520.4	16.4
60°-70°	440.9	13.9
70°-80°	296.3	9.3
80°-90°	83.6	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°	785.8	24.7
0°-40°	1296.5	40.7
0°-60°	2361.3	74.2
0°-90°	3182.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3182.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1001	1001	1001	1001	1001	
5°	1001	999	994	999	999	95
15°	966	966	964	972	971	272
25°	896	900	906	914	915	413
35°	796	802	814	830	833	498
45°	668	679	702	732	745	515
55°	516	535	582	628	650	460
65°	341	376	453	513	537	338
75°	161	219	306	358	369	172
85°	32	65	79	85	88	39
90°	0	0	0	0	0	



TEST NUMBER: P276803

CATALOG NUMBER: 24CZ2-50-RDP-UNV-L83050-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.6	1000.6	1000.6	1000.6	1000.6
2.5°	1002.2	1002.2	997.5	1000.6	1000.6
5°	1000.6	999.1	994.3	999.1	999.1
7.5°	995.9	994.3	991.2	995.9	994.3
10°	986.4	986.4	983.3	988.0	988.0
12.5°	978.6	977.0	975.4	981.7	980.1
15°	965.9	965.9	964.3	972.2	970.7
17.5°	950.1	951.7	953.3	959.6	961.2
20°	932.8	935.9	937.5	947.0	947.0
22.5°	917.0	918.6	921.7	931.2	931.2
25°	896.5	899.6	905.9	913.8	915.4
27.5°	876.0	877.5	885.4	896.5	898.1
30°	849.1	853.9	863.3	876.0	877.5
32.5°	825.5	830.2	841.2	853.9	857.0
35°	795.5	801.8	814.4	830.2	833.3
37.5°	768.6	773.4	789.2	806.5	811.3
40°	735.5	745.0	760.7	781.3	789.2
42.5°	702.3	711.8	730.8	757.6	767.1
45°	667.6	678.7	702.3	732.3	745.0
47.5°	632.9	645.5	672.4	707.1	721.3
50°	593.4	609.2	642.4	681.8	697.6
52.5°	555.6	574.5	610.8	655.0	675.5
55°	516.1	535.0	582.4	628.2	650.3
57.5°	471.9	497.2	549.3	601.3	625.0
60°	430.9	454.6	517.7	574.5	598.2
62.5°	386.7	418.3	486.1	546.1	569.8
65°	340.9	375.6	453.0	513.0	536.6
67.5°	299.9	337.8	419.8	479.8	503.5
70°	251.0	298.3	383.5	443.5	467.2
72.5°	205.2	257.3	345.6	404.0	426.1
75°	161.0	219.4	306.2	358.3	369.3
77.5°	120.0	181.5	265.2	287.3	279.4
80°	85.2	145.2	206.8	195.7	200.4
82.5°	55.2	110.5	127.8	145.2	149.9
85°	31.6	64.7	78.9	85.2	88.4
87.5°	14.2	23.7	31.6	31.6	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)