

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: P276992

Luminaire Tested: **24CZ2-40-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276992
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: 24CZ2-40-RDP-UNV-L82765-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: 2515.7 lumens
Efficiency: N/A
Efficacy: 82.2 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

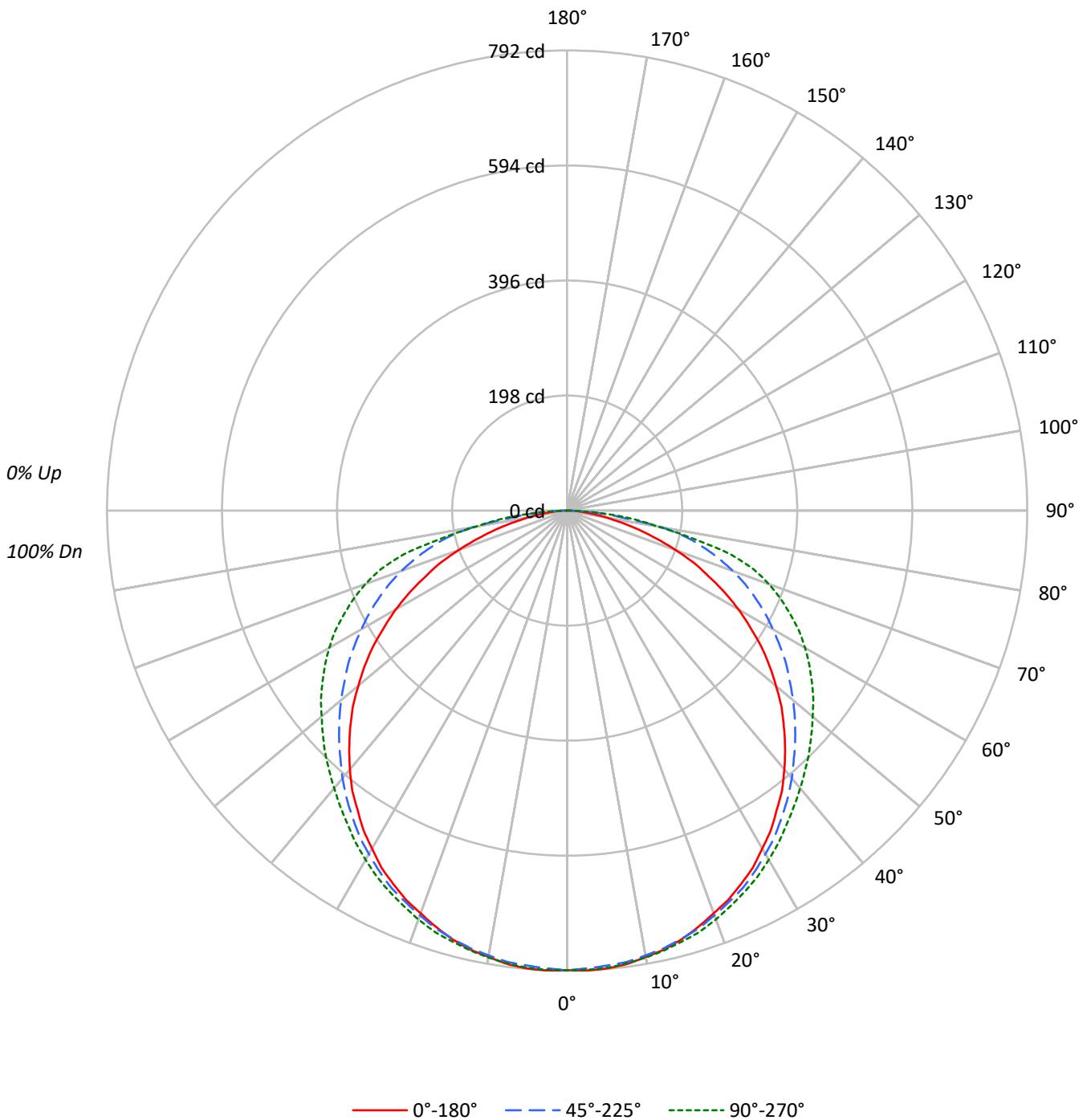
Input Watts (W): 30.597
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276992

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L82765-W2A1-U-3500K

Luminous Intensity Polar Plot





TEST NUMBER: P276992

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L82765-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°	1064	1064	1064
5°	1068	1062	1067
10°	1066	1062	1067
15°	1064	1062	1069
20°	1056	1061	1072
25°	1052	1063	1074
30°	1043	1061	1078
35°	1033	1058	1082
40°	1021	1056	1096
45°	1004	1057	1121
50°	982	1063	1154
55°	957	1080	1206
60°	917	1101	1273
65°	858	1140	1351
70°	780	1193	1453
75°	662	1259	1518
80°	522	1267	1228
85°	386	963	1079



TEST NUMBER: P276992

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L82765-W2A1-U-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.0	3.0
10°-20°	216.0	8.6
20°-30°	330.3	13.1
30°-40°	403.8	16.0
40°-50°	430.3	17.1
50°-60°	411.4	16.4
60°-70°	348.5	13.9
70°-80°	234.2	9.3
80°-90°	66.1	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°	621.3	24.7
0°-40°	1025.1	40.7
0°-60°	1866.8	74.2
0°-90°	2515.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2515.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	791	791	791	791	791	
5°	791	790	786	790	790	75
15°	764	764	762	769	767	215
25°	709	711	716	722	724	327
35°	629	634	644	656	659	394
45°	528	537	555	579	589	407
55°	408	423	460	497	514	363
65°	270	297	358	406	424	268
75°	127	173	242	283	292	136
85°	25	51	62	67	70	31
90°	0	0	0	0	0	



TEST NUMBER: P276992

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L82765-W2A1-U-3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	791.1	791.1	791.1	791.1	791.1
2.5°	792.4	792.4	788.6	791.1	791.1
5°	791.1	789.9	786.1	789.9	789.9
7.5°	787.4	786.1	783.6	787.4	786.1
10°	779.9	779.9	777.4	781.1	781.1
12.5°	773.6	772.4	771.2	776.1	774.9
15°	763.7	763.7	762.4	768.7	767.4
17.5°	751.2	752.4	753.7	758.7	759.9
20°	737.5	740.0	741.2	748.7	748.7
22.5°	725.0	726.2	728.7	736.2	736.2
25°	708.8	711.3	716.2	722.5	723.7
27.5°	692.5	693.8	700.0	708.8	710.0
30°	671.3	675.1	682.6	692.5	693.8
32.5°	652.6	656.4	665.1	675.1	677.6
35°	628.9	633.9	643.9	656.4	658.9
37.5°	607.7	611.4	623.9	637.6	641.4
40°	581.5	589.0	601.5	617.7	623.9
42.5°	555.3	562.8	577.7	599.0	606.4
45°	527.8	536.6	555.3	579.0	589.0
47.5°	500.4	510.4	531.6	559.0	570.3
50°	469.2	481.7	507.9	539.1	551.5
52.5°	439.2	454.2	482.9	517.8	534.1
55°	408.0	423.0	460.4	496.6	514.1
57.5°	373.1	393.1	434.2	475.4	494.1
60°	340.7	359.4	409.3	454.2	472.9
62.5°	305.7	330.7	384.3	431.7	450.5
65°	269.5	297.0	358.1	405.5	424.3
67.5°	237.1	267.0	331.9	379.3	398.1
70°	198.4	235.8	303.2	350.6	369.4
72.5°	162.2	203.4	273.3	319.4	336.9
75°	127.3	173.4	242.1	283.3	292.0
77.5°	94.8	143.5	209.6	227.1	220.9
80°	67.4	114.8	163.5	154.7	158.5
82.5°	43.7	87.3	101.1	114.8	118.5
85°	25.0	51.2	62.4	67.4	69.9
87.5°	11.2	18.7	25.0	25.0	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)