

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: P276906

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276906
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: 24CZ2-40HE-RDP-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2694.5 lumens
Efficiency: N/A
Efficacy: 92.6 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

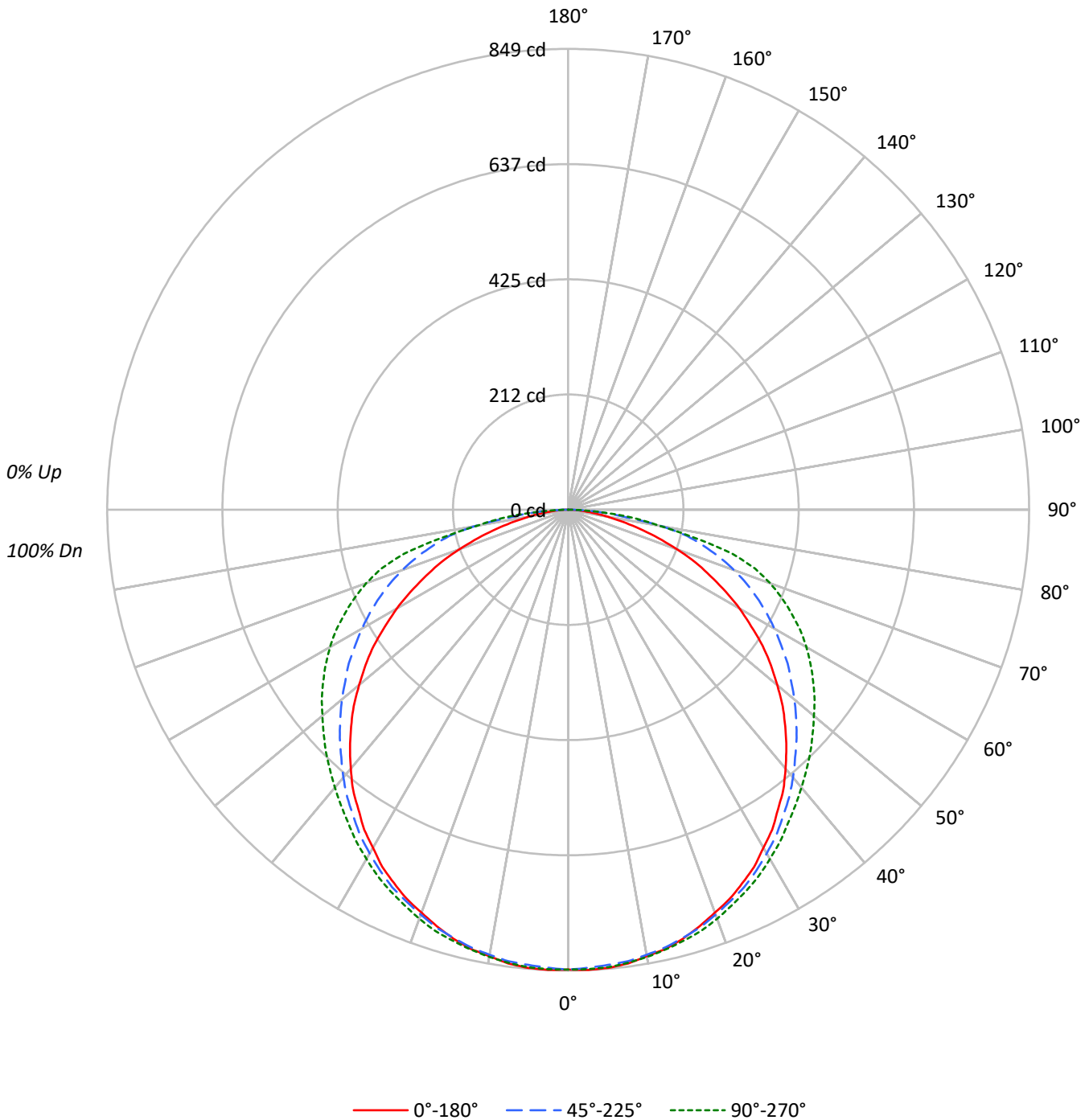
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276906

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P276906

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-L82765-W2A1-U-5500K

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°	1140	1140	1140
5°	1144	1137	1143
10°	1141	1138	1143
15°	1139	1137	1145
20°	1131	1137	1148
25°	1127	1139	1151
30°	1117	1136	1155
35°	1106	1133	1159
40°	1094	1131	1174
45°	1076	1132	1200
50°	1052	1139	1236
55°	1025	1157	1292
60°	982	1180	1363
65°	919	1221	1447
70°	836	1278	1556
75°	709	1348	1626
80°	559	1357	1315
85°	412	1031	1155



TEST NUMBER: P276906

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.4	3.0
10°-20°	231.3	8.6
20°-30°	353.7	13.1
30°-40°	432.5	16.0
40°-50°	460.9	17.1
50°-60°	440.7	16.4
60°-70°	373.3	13.9
70°-80°	250.9	9.3
80°-90°	70.8	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°	665.4	24.7
0°-40°	1097.9	40.7
0°-60°	1999.5	74.2
0°-90°	2694.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2694.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	847	847	847	847	847	
5°	847	846	842	846	846	81
15°	818	818	817	823	822	231
25°	759	762	767	774	775	350
35°	674	679	690	703	706	422
45°	565	575	595	620	631	436
55°	437	453	493	532	551	389
65°	289	318	384	434	454	287
75°	136	186	259	303	313	146
85°	27	55	67	72	75	33
90°	0	0	0	0	0	



TEST NUMBER: P276906

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	847.3	847.3	847.3	847.3	847.3
2.5°	848.7	848.7	844.7	847.3	847.3
5°	847.3	846.0	842.0	846.0	846.0
7.5°	843.3	842.0	839.3	843.3	842.0
10°	835.3	835.3	832.6	836.6	836.6
12.5°	828.6	827.3	826.0	831.3	830.0
15°	817.9	817.9	816.6	823.3	821.9
17.5°	804.6	805.9	807.2	812.6	813.9
20°	789.9	792.5	793.9	801.9	801.9
22.5°	776.5	777.8	780.5	788.5	788.5
25°	759.1	761.8	767.2	773.8	775.2
27.5°	741.8	743.1	749.8	759.1	760.5
30°	719.0	723.0	731.1	741.8	743.1
32.5°	699.0	703.0	712.4	723.0	725.7
35°	673.6	678.9	689.6	703.0	705.7
37.5°	650.9	654.9	668.3	683.0	687.0
40°	622.8	630.8	644.2	661.6	668.3
42.5°	594.7	602.8	618.8	641.5	649.5
45°	565.3	574.7	594.7	620.1	630.8
47.5°	535.9	546.6	569.3	598.8	610.8
50°	502.5	515.9	544.0	577.4	590.7
52.5°	470.4	486.5	517.2	554.6	572.0
55°	437.0	453.1	493.2	531.9	550.6
57.5°	399.6	421.0	465.1	509.2	529.3
60°	364.9	384.9	438.4	486.5	506.5
62.5°	327.4	354.2	411.6	462.4	482.5
65°	288.7	318.1	383.6	434.4	454.4
67.5°	253.9	286.0	355.5	406.3	426.3
70°	212.5	252.6	324.8	375.6	395.6
72.5°	173.7	217.8	292.7	342.1	360.9
75°	136.3	185.8	259.3	303.4	312.7
77.5°	101.6	153.7	224.5	243.2	236.6
80°	72.2	123.0	175.1	165.7	169.7
82.5°	46.8	93.6	108.3	123.0	127.0
85°	26.7	54.8	66.8	72.2	74.8
87.5°	12.0	20.0	26.7	26.7	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)