

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: P277133

Luminaire Tested: **24CZ2-40-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277133
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-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2444.4 lumens
Efficiency: N/A
Efficacy: 76.9 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

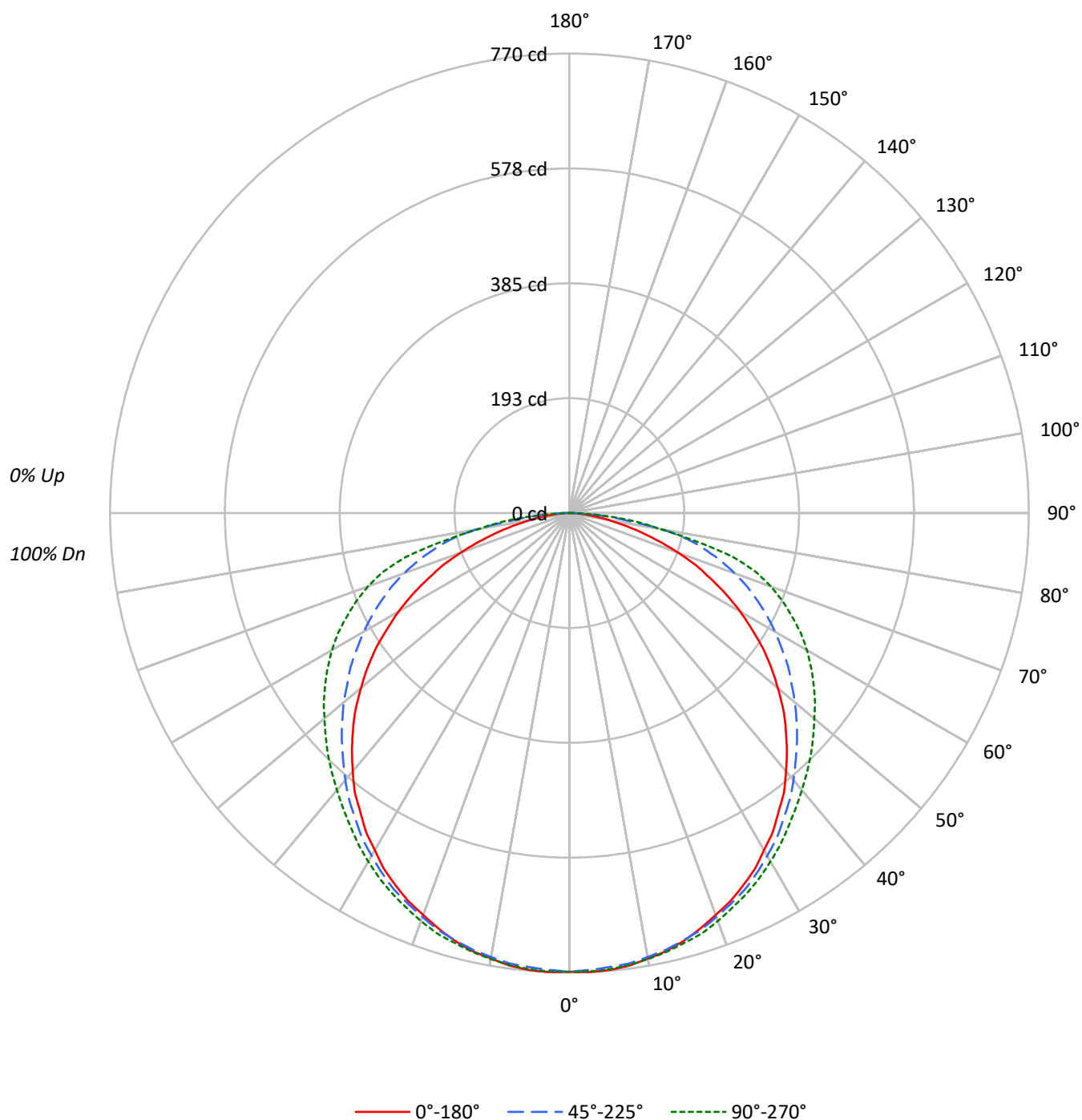
Input Watts (W): 31.806
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	98	94	105	100	96	92	96	93	89		92	89	87		88
2	97	89	81	75	95	87	80	74	83	77	72		80	75	71		77
3	88	77	68	62	86	76	68	61	72	66	60		70	64	59		67
4	81	68	59	52	78	67	58	51	64	57	51		62	55	50		59
5	74	60	51	44	72	59	51	44	57	49	43		55	48	43		53
6	68	54	45	38	66	53	45	38	51	44	38		50	43	37		48
7	63	49	40	34	61	48	40	34	47	39	33		45	38	33		44
8	59	45	36	30	57	44	36	30	43	35	30		41	34	29		40
9	55	41	33	27	53	40	32	27	39	32	27		38	31	26		37
10	51	38	30	24	50	37	29	24	36	29	24		35	29	24		34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1034	1034	1034
5°	1038	1032	1037
10°	1035	1032	1037
15°	1034	1032	1039
20°	1026	1031	1042
25°	1022	1033	1044
30°	1013	1030	1047
35°	1004	1028	1052
40°	992	1026	1065
45°	976	1027	1089
50°	954	1033	1122
55°	930	1050	1172
60°	891	1070	1237
65°	834	1108	1312
70°	758	1159	1412
75°	643	1223	1475
80°	508	1230	1193
85°	374	936	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.9	3.0
10°-20°	209.9	8.6
20°-30°	320.9	13.1
30°-40°	392.3	16.0
40°-50°	418.1	17.1
50°-60°	399.8	16.4
60°-70°	338.7	13.9
70°-80°	227.6	9.3
80°-90°	64.2	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°	603.7	24.7
0°-40°	996.0	40.7
0°-60°	1813.9	74.2
0°-90°	2444.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2444.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	769	768	764	768	768	73
15°	742	742	741	747	746	209
25°	689	691	696	702	703	317
35°	611	616	626	638	640	383
45°	513	521	540	563	572	396
55°	396	411	447	483	500	353
65°	262	289	348	394	412	260
75°	124	168	235	275	284	132
85°	24	50	61	66	68	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	768.7	768.7	768.7	768.7	768.7
2.5°	769.9	769.9	766.3	768.7	768.7
5°	768.7	767.5	763.9	767.5	767.5
7.5°	765.1	763.9	761.4	765.1	763.9
10°	757.8	757.8	755.4	759.0	759.0
12.5°	751.7	750.5	749.3	754.2	752.9
15°	742.0	742.0	740.8	746.9	745.7
17.5°	729.9	731.1	732.3	737.2	738.4
20°	716.6	719.0	720.2	727.5	727.5
22.5°	704.4	705.7	708.1	715.4	715.4
25°	688.7	691.1	696.0	702.0	703.2
27.5°	672.9	674.1	680.2	688.7	689.9
30°	652.3	655.9	663.2	672.9	674.1
32.5°	634.1	637.8	646.3	655.9	658.4
35°	611.1	615.9	625.6	637.8	640.2
37.5°	590.5	594.1	606.2	619.6	623.2
40°	565.0	572.3	584.4	600.2	606.2
42.5°	539.6	546.8	561.4	582.0	589.3
45°	512.9	521.4	539.6	562.6	572.3
47.5°	486.2	495.9	516.5	543.2	554.1
50°	455.9	468.0	493.5	523.8	535.9
52.5°	426.8	441.3	469.2	503.2	518.9
55°	396.5	411.0	447.4	482.6	499.5
57.5°	362.5	381.9	421.9	462.0	480.1
60°	331.0	349.2	397.7	441.3	459.5
62.5°	297.1	321.3	373.4	419.5	437.7
65°	261.9	288.6	348.0	394.1	412.2
67.5°	230.4	259.5	322.5	368.6	386.8
70°	192.8	229.2	294.6	340.7	358.9
72.5°	157.6	197.6	265.5	310.4	327.4
75°	123.7	168.5	235.2	275.2	283.7
77.5°	92.1	139.4	203.7	220.7	214.6
80°	65.5	111.5	158.8	150.3	154.0
82.5°	42.4	84.9	98.2	111.5	115.2
85°	24.2	49.7	60.6	65.5	67.9
87.5°	10.9	18.2	24.2	24.2	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)