

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: P277128

Luminaire Tested: **24CZ2-40-RDP-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277128
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-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2274.6 lumens
Efficiency: N/A
Efficacy: 73.9 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

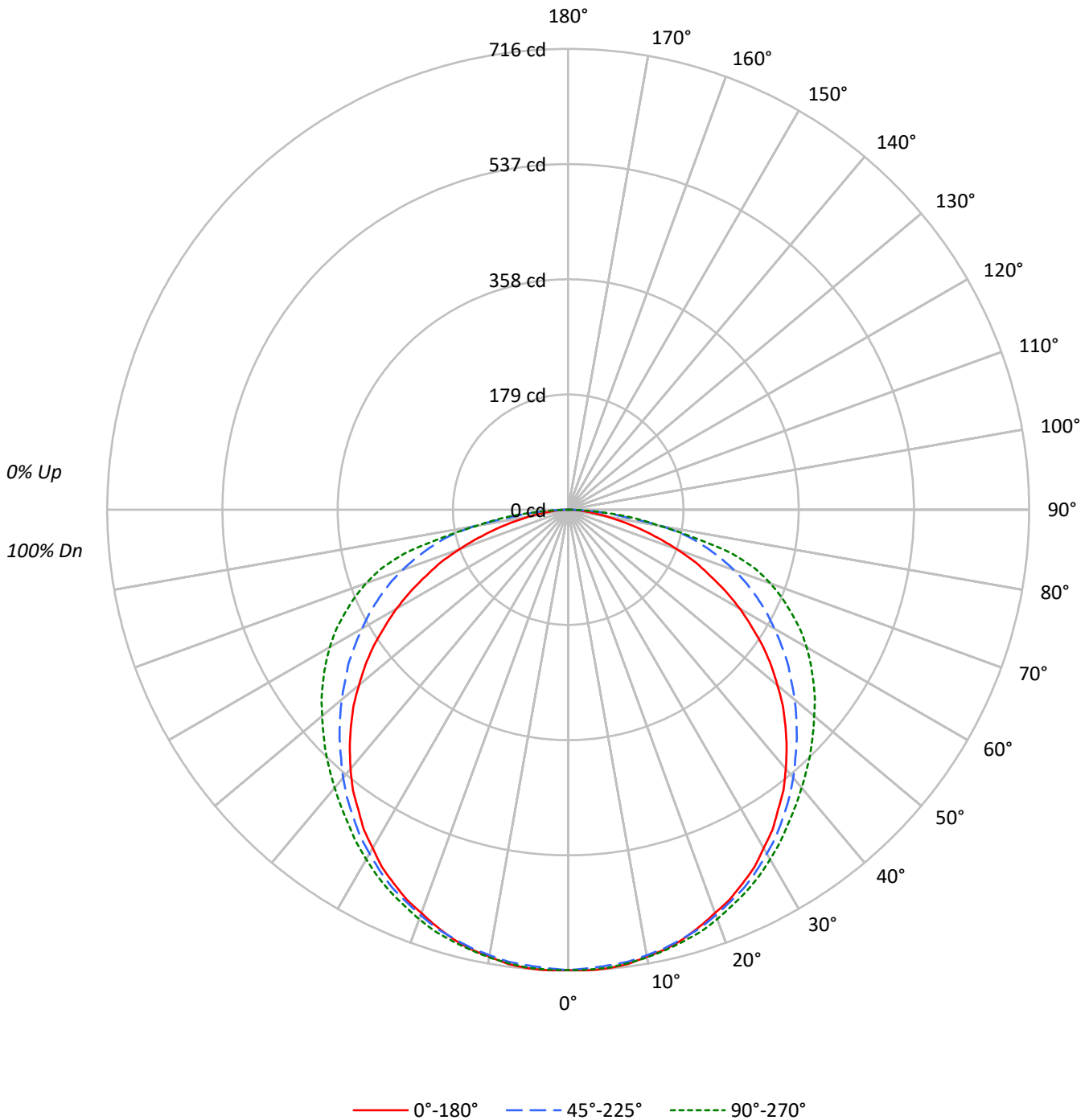
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277128

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P277128

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L92765-W2A1-U-4000K

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°	962	962	962
5°	966	960	965
10°	963	960	965
15°	962	960	967
20°	955	960	969
25°	951	961	972
30°	943	959	975
35°	934	956	978
40°	923	955	991
45°	908	955	1013
50°	888	961	1044
55°	865	977	1090
60°	829	996	1151
65°	776	1031	1221
70°	706	1079	1314
75°	598	1138	1372
80°	472	1145	1110
85°	349	871	976



TEST NUMBER: P277128

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.9	3.0
10°-20°	195.3	8.6
20°-30°	298.6	13.1
30°-40°	365.1	16.0
40°-50°	389.1	17.1
50°-60°	372.0	16.4
60°-70°	315.1	13.9
70°-80°	211.8	9.3
80°-90°	59.8	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°	561.7	24.7
0°-40°	926.8	40.7
0°-60°	1687.9	74.2
0°-90°	2274.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2274.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	715	715	715	715	715	
5°	715	714	711	714	714	68
15°	690	690	689	695	694	195
25°	641	643	648	653	654	295
35°	569	573	582	593	596	356
45°	477	485	502	524	532	368
55°	369	382	416	449	465	329
65°	244	268	324	367	384	242
75°	115	157	219	256	264	123
85°	23	46	56	61	63	28
90°	0	0	0	0	0	



TEST NUMBER: P277128

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.3	715.3	715.3	715.3	715.3
2.5°	716.4	716.4	713.0	715.3	715.3
5°	715.3	714.2	710.8	714.2	714.2
7.5°	711.9	710.8	708.5	711.9	710.8
10°	705.1	705.1	702.9	706.3	706.3
12.5°	699.5	698.4	697.2	701.8	700.6
15°	690.5	690.5	689.3	695.0	693.9
17.5°	679.2	680.3	681.4	686.0	687.1
20°	666.8	669.0	670.2	676.9	676.9
22.5°	655.5	656.6	658.9	665.6	665.6
25°	640.8	643.1	647.6	653.2	654.4
27.5°	626.2	627.3	632.9	640.8	642.0
30°	607.0	610.4	617.1	626.2	627.3
32.5°	590.1	593.4	601.3	610.4	612.6
35°	568.6	573.1	582.2	593.4	595.7
37.5°	549.4	552.8	564.1	576.5	579.9
40°	525.7	532.5	543.8	558.5	564.1
42.5°	502.1	508.8	522.4	541.5	548.3
45°	477.2	485.1	502.1	523.5	532.5
47.5°	452.4	461.4	480.6	505.4	515.6
50°	424.2	435.5	459.2	487.4	498.7
52.5°	397.1	410.7	436.6	468.2	482.9
55°	368.9	382.5	416.3	449.0	464.8
57.5°	337.3	355.4	392.6	429.9	446.8
60°	308.0	324.9	370.1	410.7	427.6
62.5°	276.4	299.0	347.5	390.4	407.3
65°	243.7	268.5	323.8	366.7	383.6
67.5°	214.4	241.4	300.1	343.0	359.9
70°	179.4	213.2	274.2	317.0	334.0
72.5°	146.7	183.9	247.1	288.8	304.6
75°	115.1	156.8	218.9	256.1	264.0
77.5°	85.7	129.7	189.5	205.3	199.7
80°	60.9	103.8	147.8	139.9	143.3
82.5°	39.5	79.0	91.4	103.8	107.2
85°	22.6	46.3	56.4	60.9	63.2
87.5°	10.2	16.9	22.6	22.6	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)