

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: P277040

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277040
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2395.5 lumens
Efficiency: N/A
Efficacy: 82.8 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

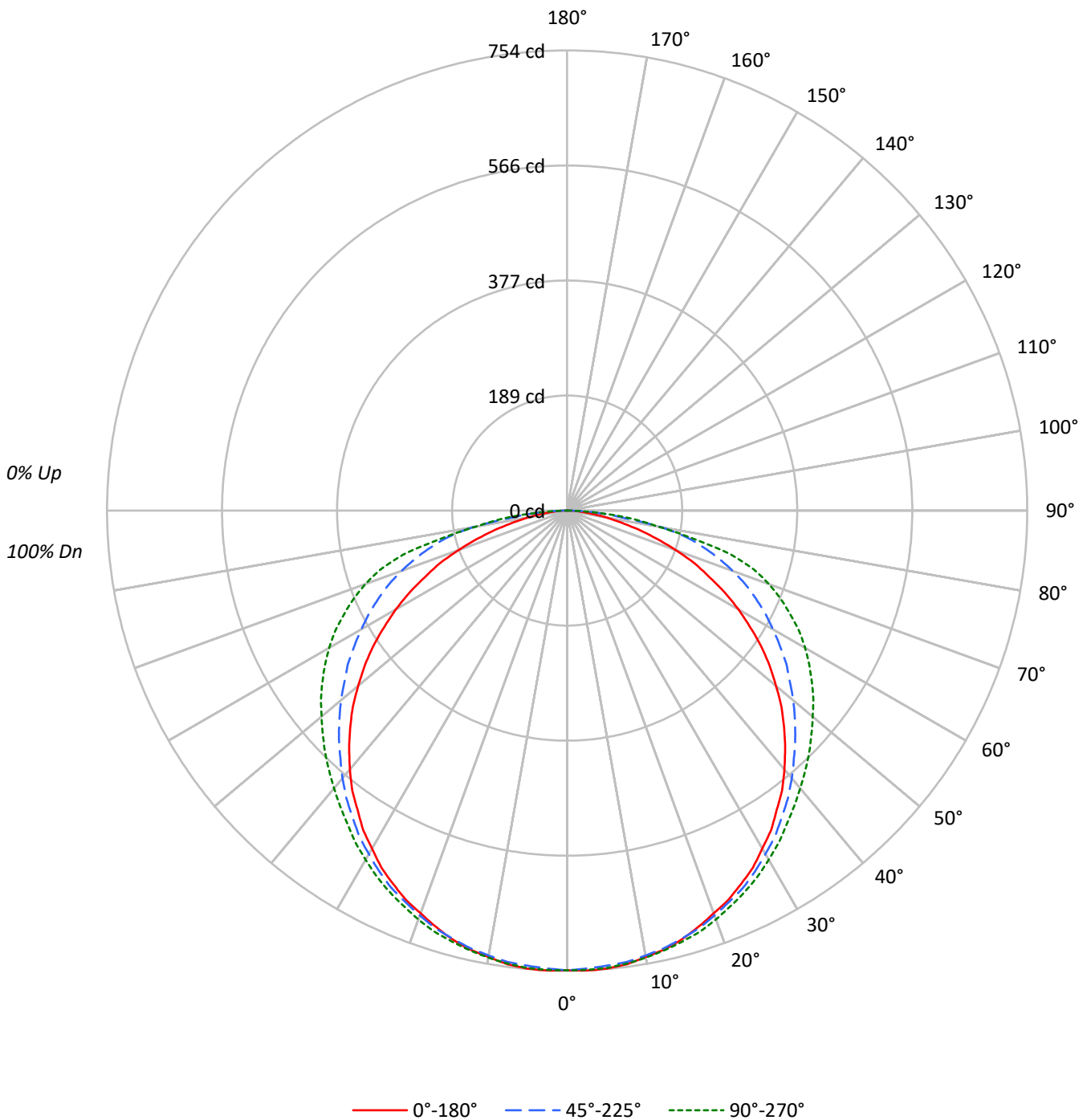
Input Watts (W): 28.923
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277040

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P277040

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-L92765-W2A1-U-5000K

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°	1014	1014	1014
5°	1017	1011	1016
10°	1015	1011	1016
15°	1013	1011	1018
20°	1005	1011	1021
25°	1002	1012	1023
30°	993	1010	1026
35°	984	1007	1031
40°	973	1006	1043
45°	956	1006	1067
50°	935	1012	1099
55°	911	1028	1148
60°	873	1049	1212
65°	817	1086	1286
70°	743	1136	1384
75°	630	1198	1445
80°	497	1206	1169
85°	367	917	1027



TEST NUMBER: P277040

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.5	3.0
10°-20°	205.7	8.6
20°-30°	314.5	13.1
30°-40°	384.5	16.0
40°-50°	409.8	17.1
50°-60°	391.8	16.4
60°-70°	331.9	13.9
70°-80°	223.1	9.3
80°-90°	62.9	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°	591.6	24.7
0°-40°	976.1	40.7
0°-60°	1777.6	74.2
0°-90°	2395.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2395.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	753	752	749	752	752	72
15°	727	727	726	732	731	205
25°	675	677	682	688	689	311
35°	599	604	613	625	627	375
45°	503	511	529	551	561	388
55°	388	403	438	473	490	346
65°	257	283	341	386	404	255
75°	121	165	230	270	278	130
85°	24	49	59	64	66	29
90°	0	0	0	0	0	



TEST NUMBER: P277040

CATALOG NUMBER: 24CZ2-40HE-RDP-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	753.3	753.3	753.3	753.3	753.3
2.5°	754.5	754.5	750.9	753.3	753.3
5°	753.3	752.1	748.6	752.1	752.1
7.5°	749.7	748.6	746.2	749.7	748.6
10°	742.6	742.6	740.2	743.8	743.8
12.5°	736.7	735.5	734.3	739.0	737.9
15°	727.2	727.2	726.0	731.9	730.7
17.5°	715.3	716.5	717.7	722.4	723.6
20°	702.2	704.6	705.8	712.9	712.9
22.5°	690.3	691.5	693.9	701.0	701.0
25°	674.9	677.3	682.0	688.0	689.1
27.5°	659.4	660.6	666.6	674.9	676.1
30°	639.2	642.8	649.9	659.4	660.6
32.5°	621.4	625.0	633.3	642.8	645.2
35°	598.8	603.6	613.1	625.0	627.4
37.5°	578.6	582.2	594.1	607.2	610.7
40°	553.7	560.8	572.7	588.1	594.1
42.5°	528.7	535.9	550.1	570.3	577.5
45°	502.6	510.9	528.7	551.3	560.8
47.5°	476.5	486.0	506.2	532.3	543.0
50°	446.8	458.6	483.6	513.3	525.2
52.5°	418.2	432.5	459.8	493.1	508.5
55°	388.5	402.8	438.4	472.9	489.5
57.5°	355.3	374.3	413.5	452.7	470.5
60°	324.4	342.2	389.7	432.5	450.3
62.5°	291.1	314.9	366.0	411.1	428.9
65°	256.6	282.8	341.0	386.2	404.0
67.5°	225.8	254.3	316.1	361.2	379.0
70°	188.9	224.6	288.7	333.9	351.7
72.5°	154.5	193.7	260.2	304.2	320.8
75°	121.2	165.2	230.5	269.7	278.0
77.5°	90.3	136.6	199.6	216.2	210.3
80°	64.2	109.3	155.7	147.3	150.9
82.5°	41.6	83.2	96.2	109.3	112.9
85°	23.8	48.7	59.4	64.2	66.5
87.5°	10.7	17.8	23.8	23.8	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)