

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: P277131

Luminaire Tested: **24CZ2-40-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277131
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-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2417.7 lumens
Efficiency: N/A
Efficacy: 77.4 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

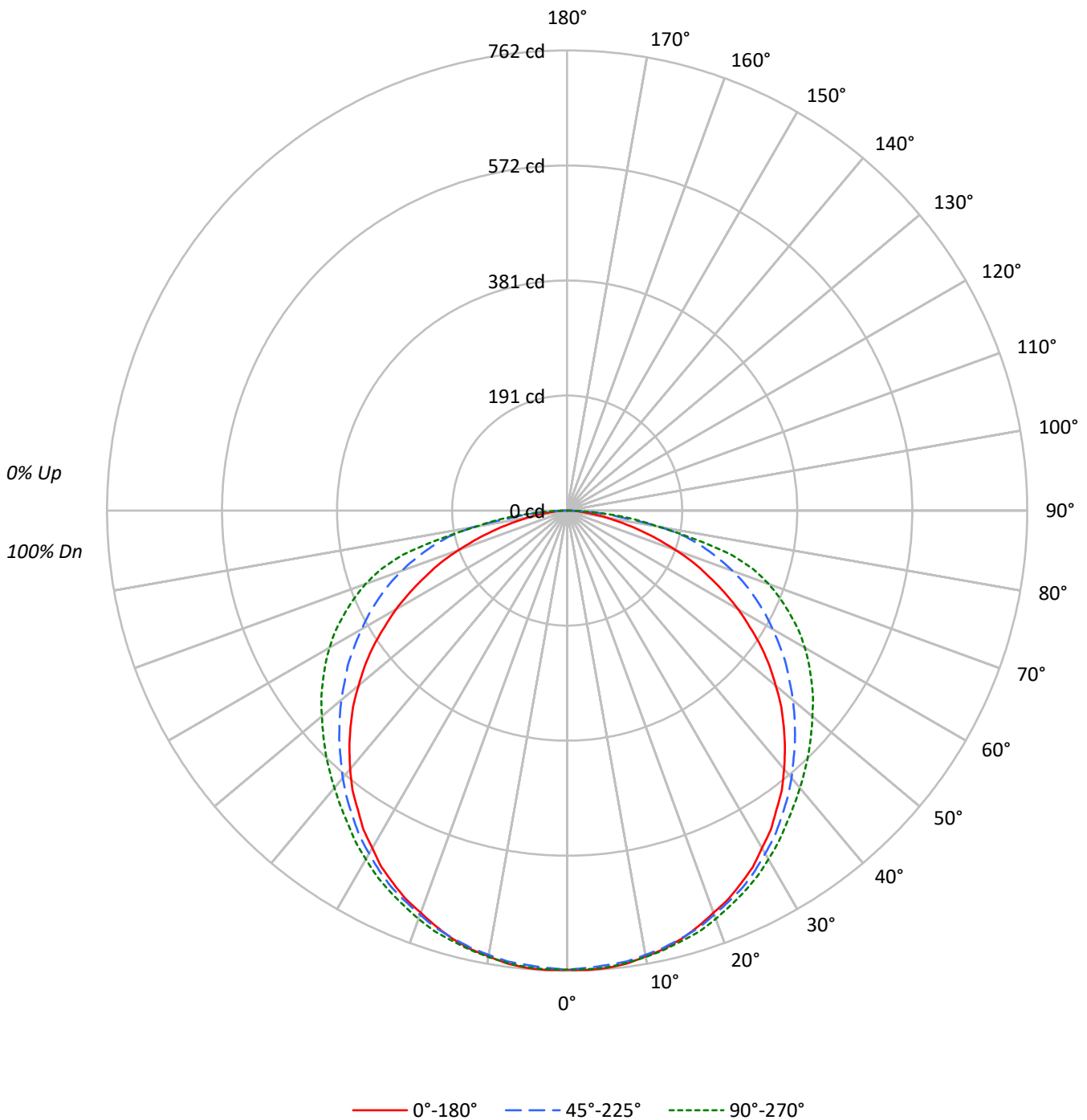
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P277131

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P277131

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L92765-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°	1023	1023	1023
5°	1027	1020	1025
10°	1024	1021	1026
15°	1022	1021	1027
20°	1015	1020	1030
25°	1011	1022	1033
30°	1002	1019	1036
35°	993	1016	1040
40°	981	1015	1053
45°	965	1016	1077
50°	944	1022	1110
55°	920	1038	1159
60°	881	1058	1223
65°	825	1096	1298
70°	750	1146	1397
75°	636	1209	1459
80°	502	1217	1180
85°	371	926	1037



TEST NUMBER: P277131

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.1	3.0
10°-20°	207.6	8.6
20°-30°	317.4	13.1
30°-40°	388.0	16.0
40°-50°	413.6	17.1
50°-60°	395.4	16.4
60°-70°	335.0	13.9
70°-80°	225.1	9.3
80°-90°	63.5	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°	597.1	24.7
0°-40°	985.1	40.7
0°-60°	1794.1	74.2
0°-90°	2417.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2417.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	760	759	756	759	759	72
15°	734	734	733	739	738	207
25°	681	684	688	694	696	314
35°	604	609	619	631	633	379
45°	507	516	534	556	566	391
55°	392	406	442	477	494	349
65°	259	285	344	390	408	257
75°	122	167	233	272	281	131
85°	24	49	60	65	67	30
90°	0	0	0	0	0	



TEST NUMBER: P277131

CATALOG NUMBER: 24CZ2-40-RDP-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	760.3	760.3	760.3	760.3	760.3
2.5°	761.5	761.5	757.9	760.3	760.3
5°	760.3	759.1	755.5	759.1	759.1
7.5°	756.7	755.5	753.1	756.7	755.5
10°	749.5	749.5	747.1	750.7	750.7
12.5°	743.5	742.3	741.1	745.9	744.7
15°	733.9	733.9	732.7	738.7	737.5
17.5°	721.9	723.1	724.3	729.1	730.3
20°	708.7	711.1	712.3	719.5	719.5
22.5°	696.7	697.9	700.3	707.5	707.5
25°	681.2	683.6	688.4	694.3	695.5
27.5°	665.6	666.8	672.8	681.2	682.4
30°	645.2	648.8	656.0	665.6	666.8
32.5°	627.2	630.8	639.2	648.8	651.2
35°	604.4	609.2	618.8	630.8	633.2
37.5°	584.0	587.6	599.6	612.8	616.4
40°	558.8	566.0	578.0	593.6	599.6
42.5°	533.7	540.8	555.2	575.6	582.8
45°	507.3	515.7	533.7	556.4	566.0
47.5°	480.9	490.5	510.9	537.3	548.0
50°	450.9	462.9	488.1	518.1	530.1
52.5°	422.1	436.5	464.1	497.7	513.3
55°	392.1	406.5	442.5	477.3	494.1
57.5°	358.6	377.8	417.3	456.9	474.9
60°	327.4	345.4	393.3	436.5	454.5
62.5°	293.8	317.8	369.4	414.9	432.9
65°	259.0	285.4	344.2	389.7	407.7
67.5°	227.9	256.6	319.0	364.6	382.6
70°	190.7	226.7	291.4	337.0	355.0
72.5°	155.9	195.5	262.6	307.0	323.8
75°	122.3	166.7	232.6	272.2	280.6
77.5°	91.1	137.9	201.5	218.3	212.3
80°	64.8	110.3	157.1	148.7	152.3
82.5°	42.0	83.9	97.1	110.3	113.9
85°	24.0	49.2	60.0	64.8	67.2
87.5°	10.8	18.0	24.0	24.0	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)