

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: P277129

Luminaire Tested: **24CZ2-40-RDP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277129
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2333.7 lumens
Efficiency: N/A
Efficacy: 75.4 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

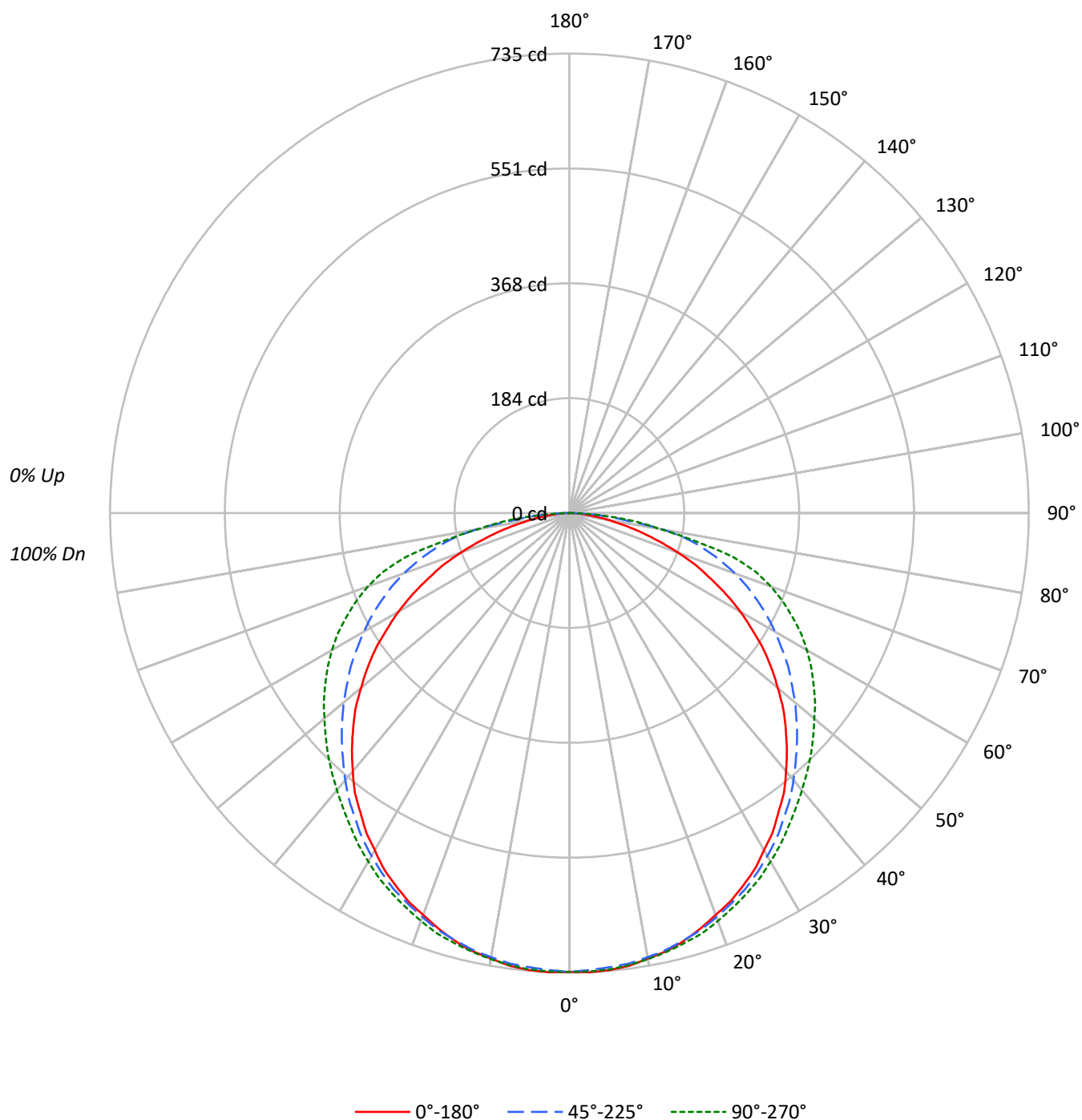
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	88	86	84
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	987	987	987
5°	991	985	990
10°	988	985	990
15°	987	985	992
20°	980	985	994
25°	976	986	997
30°	968	984	1000
35°	958	981	1004
40°	947	980	1017
45°	932	980	1040
50°	911	986	1071
55°	888	1002	1119
60°	850	1022	1181
65°	796	1058	1253
70°	724	1107	1348
75°	614	1168	1408
80°	484	1175	1139
85°	358	894	1000



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.0
10°-20°	200.4	8.6
20°-30°	306.4	13.1
30°-40°	374.6	16.0
40°-50°	399.2	17.1
50°-60°	381.7	16.4
60°-70°	323.3	13.9
70°-80°	217.3	9.3
80°-90°	61.3	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°	576.4	24.7
0°-40°	950.9	40.7
0°-60°	1731.8	74.2
0°-90°	2333.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2333.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	734	734	734	734	734	
5°	734	733	729	733	733	70
15°	708	708	707	713	712	200
25°	658	660	664	670	671	303
35°	583	588	597	609	611	365
45°	490	498	515	537	546	378
55°	378	392	427	461	477	337
65°	250	276	332	376	394	248
75°	118	161	225	263	271	126
85°	23	48	58	62	65	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	733.9	733.9	733.9	733.9	733.9
2.5°	735.1	735.1	731.6	733.9	733.9
5°	733.9	732.7	729.3	732.7	732.7
7.5°	730.4	729.3	727.0	730.4	729.3
10°	723.5	723.5	721.2	724.6	724.6
12.5°	717.7	716.5	715.4	720.0	718.8
15°	708.4	708.4	707.3	713.1	711.9
17.5°	696.9	698.0	699.2	703.8	705.0
20°	684.1	686.4	687.6	694.5	694.5
22.5°	672.5	673.7	676.0	683.0	683.0
25°	657.5	659.8	664.4	670.2	671.4
27.5°	642.4	643.6	649.4	657.5	658.7
30°	622.8	626.2	633.2	642.4	643.6
32.5°	605.4	608.9	617.0	626.2	628.6
35°	583.4	588.0	597.3	608.9	611.2
37.5°	563.7	567.2	578.8	591.5	595.0
40°	539.4	546.4	557.9	573.0	578.8
42.5°	515.1	522.1	536.0	555.6	562.6
45°	489.6	497.8	515.1	537.1	546.4
47.5°	464.2	473.4	493.1	518.6	529.0
50°	435.2	446.8	471.1	500.1	511.6
52.5°	407.5	421.4	448.0	480.4	495.4
55°	378.5	392.4	427.1	460.7	476.9
57.5°	346.1	364.6	402.8	441.0	458.4
60°	316.0	333.4	379.7	421.4	438.7
62.5°	283.6	306.8	356.5	400.5	417.9
65°	250.0	275.5	332.2	376.2	393.6
67.5°	219.9	247.7	307.9	351.9	369.3
70°	184.1	218.8	281.3	325.3	342.6
72.5°	150.5	188.7	253.5	296.3	312.5
75°	118.1	160.9	224.6	262.8	270.9
77.5°	88.0	133.1	194.5	210.7	204.9
80°	62.5	106.5	151.6	143.5	147.0
82.5°	40.5	81.0	93.8	106.5	110.0
85°	23.2	47.5	57.9	62.5	64.8
87.5°	10.4	17.4	23.2	23.2	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)