

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: P277036

Luminaire Tested: **24CZ2-40HE-RDP-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277036
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-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2111.7 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

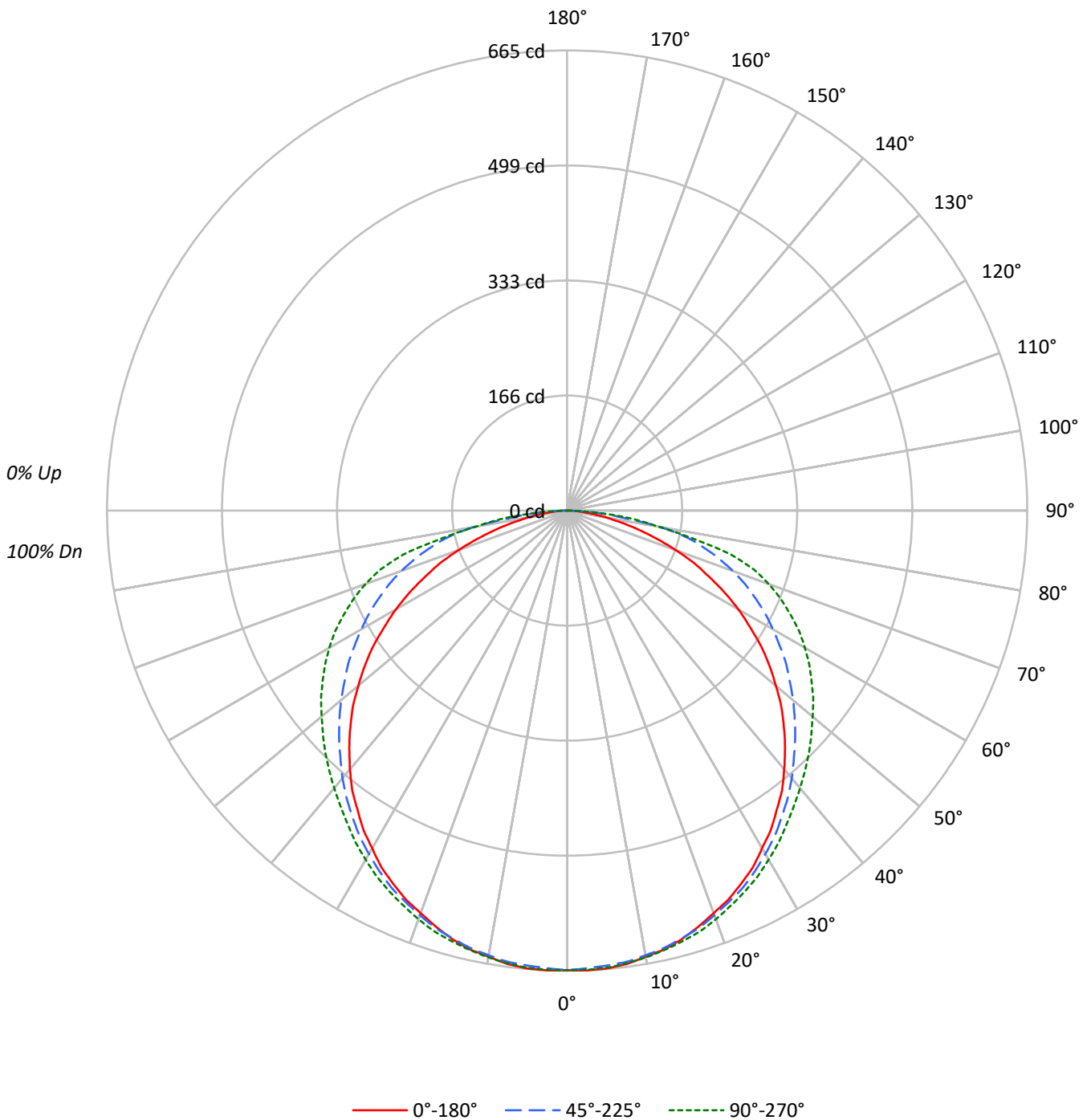
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	894	894	894
5°	897	891	895
10°	894	891	896
15°	893	891	897
20°	886	891	900
25°	883	893	902
30°	875	890	905
35°	867	888	908
40°	857	887	920
45°	843	887	941
50°	824	892	969
55°	803	907	1012
60°	769	925	1068
65°	720	957	1134
70°	655	1001	1220
75°	555	1056	1274
80°	439	1063	1031
85°	323	809	906



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.0	3.0
10°-20°	181.3	8.6
20°-30°	277.2	13.1
30°-40°	338.9	16.0
40°-50°	361.2	17.1
50°-60°	345.4	16.4
60°-70°	292.6	13.9
70°-80°	196.6	9.3
80°-90°	55.5	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°	521.5	24.7
0°-40°	860.4	40.7
0°-60°	1567.0	74.2
0°-90°	2111.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2111.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	664	663	660	663	663	63
15°	641	641	640	645	644	181
25°	595	597	601	606	608	274
35°	528	532	540	551	553	331
45°	443	450	466	486	494	342
55°	342	355	386	417	432	305
65°	226	249	301	340	356	225
75°	107	146	203	238	245	114
85°	21	43	52	57	59	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.1	664.1	664.1	664.1	664.1
2.5°	665.1	665.1	662.0	664.1	664.1
5°	664.1	663.0	659.9	663.0	663.0
7.5°	660.9	659.9	657.8	660.9	659.9
10°	654.6	654.6	652.5	655.7	655.7
12.5°	649.4	648.4	647.3	651.5	650.5
15°	641.0	641.0	640.0	645.2	644.2
17.5°	630.6	631.6	632.6	636.8	637.9
20°	619.0	621.1	622.2	628.5	628.5
22.5°	608.6	609.6	611.7	618.0	618.0
25°	594.9	597.0	601.2	606.5	607.5
27.5°	581.3	582.4	587.6	594.9	596.0
30°	563.5	566.7	572.9	581.3	582.4
32.5°	547.8	550.9	558.3	566.7	568.8
35°	527.9	532.1	540.5	550.9	553.0
37.5°	510.1	513.2	523.7	535.2	538.4
40°	488.1	494.4	504.9	518.5	523.7
42.5°	466.1	472.4	485.0	502.8	509.0
45°	443.1	450.4	466.1	486.0	494.4
47.5°	420.0	428.4	446.2	469.2	478.7
50°	393.8	404.3	426.3	452.5	463.0
52.5°	368.7	381.3	405.4	434.7	448.3
55°	342.5	355.1	386.5	416.9	431.5
57.5°	313.2	329.9	364.5	399.1	414.8
60°	285.9	301.7	343.6	381.3	397.0
62.5°	256.6	277.6	322.6	362.4	378.1
65°	226.2	249.3	300.6	340.4	356.1
67.5°	199.0	224.1	278.6	318.4	334.1
70°	166.5	198.0	254.5	294.3	310.0
72.5°	136.2	170.7	229.4	268.1	282.8
75°	106.8	145.6	203.2	237.8	245.1
77.5°	79.6	120.5	176.0	190.6	185.4
80°	56.6	96.4	137.2	129.9	133.0
82.5°	36.7	73.3	84.8	96.4	99.5
85°	20.9	42.9	52.4	56.6	58.7
87.5°	9.4	15.7	20.9	20.9	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)