

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: P276994

Luminaire Tested: **24CZ2-40-RDP-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276994
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-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2616.3 lumens
Efficiency: N/A
Efficacy: 84.5 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

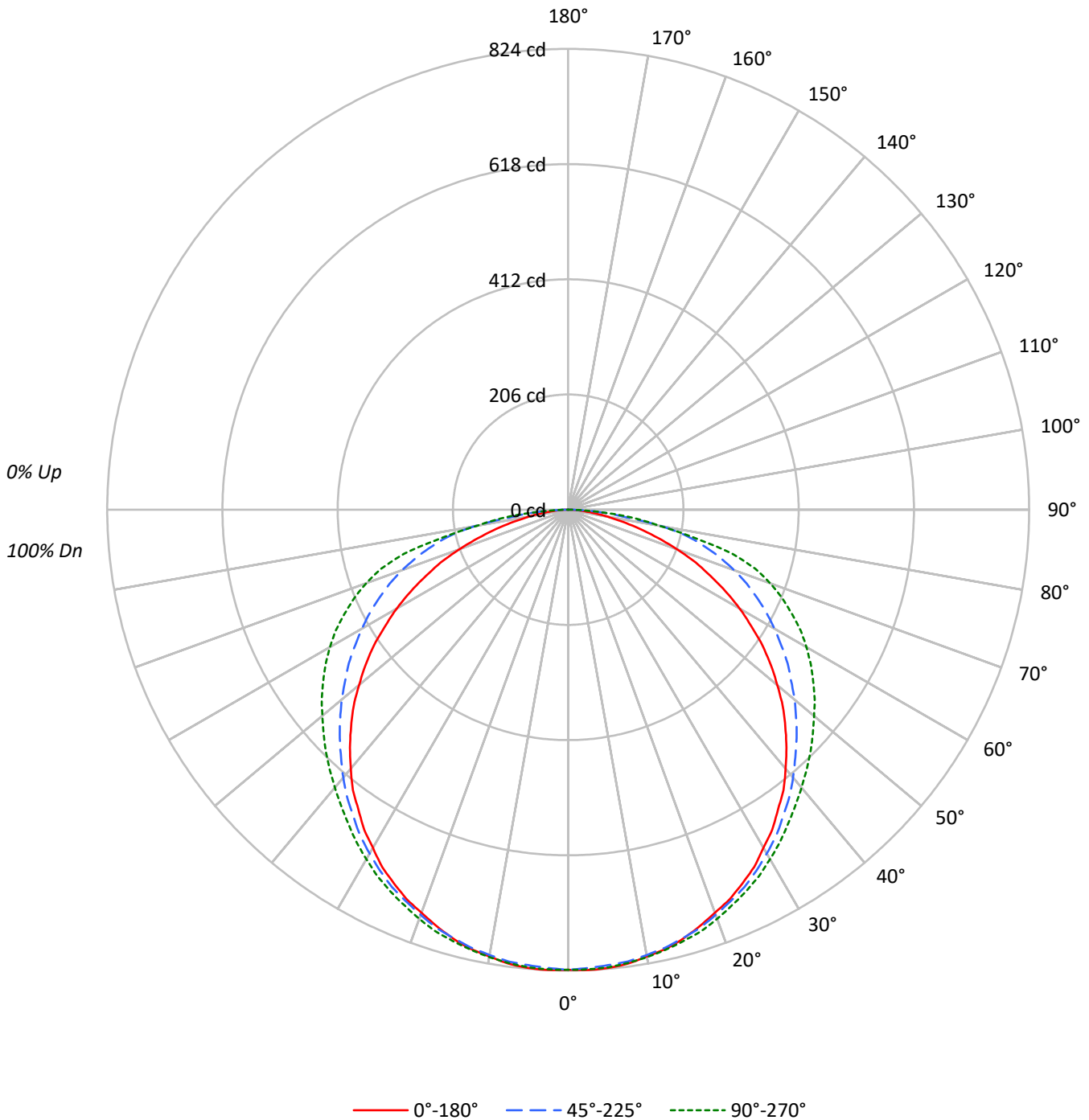
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1107	1107	1107
5°	1111	1104	1109
10°	1108	1105	1110
15°	1106	1104	1112
20°	1098	1104	1115
25°	1094	1106	1117
30°	1085	1103	1121
35°	1074	1100	1125
40°	1062	1099	1140
45°	1044	1099	1165
50°	1021	1106	1201
55°	995	1123	1254
60°	953	1145	1323
65°	892	1186	1405
70°	812	1240	1511
75°	688	1309	1579
80°	543	1317	1277
85°	401	1002	1122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.0
10°-20°	224.6	8.6
20°-30°	343.5	13.1
30°-40°	419.9	16.0
40°-50°	447.5	17.1
50°-60°	427.9	16.4
60°-70°	362.5	13.9
70°-80°	243.6	9.3
80°-90°	68.7	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°	646.1	24.7
0°-40°	1066.0	40.7
0°-60°	1941.4	74.2
0°-90°	2616.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2616.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	823	821	818	821	821	78
15°	794	794	793	799	798	224
25°	737	740	745	751	753	340
35°	654	659	670	683	685	410
45°	549	558	578	602	612	423
55°	424	440	479	516	535	378
65°	280	309	372	422	441	278
75°	132	180	252	295	304	142
85°	26	53	65	70	73	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	822.7	822.7	822.7	822.7	822.7
2.5°	824.0	824.0	820.1	822.7	822.7
5°	822.7	821.4	817.5	821.4	821.4
7.5°	818.8	817.5	814.9	818.8	817.5
10°	811.1	811.1	808.5	812.4	812.4
12.5°	804.6	803.3	802.0	807.2	805.9
15°	794.2	794.2	792.9	799.4	798.1
17.5°	781.2	782.5	783.8	789.0	790.3
20°	766.9	769.5	770.8	778.6	778.6
22.5°	754.0	755.3	757.8	765.6	765.6
25°	737.1	739.7	744.9	751.4	752.7
27.5°	720.2	721.5	728.0	737.1	738.4
30°	698.2	702.0	709.8	720.2	721.5
32.5°	678.7	682.6	691.7	702.0	704.6
35°	654.0	659.2	669.6	682.6	685.2
37.5°	632.0	635.9	648.8	663.1	667.0
40°	604.7	612.5	625.5	642.4	648.8
42.5°	577.5	585.3	600.8	622.9	630.7
45°	548.9	558.0	577.5	602.1	612.5
47.5°	520.4	530.8	552.8	581.4	593.0
50°	487.9	500.9	528.2	560.6	573.6
52.5°	456.8	472.4	502.2	538.5	555.4
55°	424.3	439.9	478.8	516.5	534.6
57.5°	388.0	408.8	451.6	494.4	513.9
60°	354.3	373.7	425.6	472.4	491.8
62.5°	317.9	343.9	399.7	449.0	468.5
65°	280.3	308.8	372.4	421.7	441.2
67.5°	246.6	277.7	345.2	394.5	414.0
70°	206.3	245.3	315.3	364.6	384.1
72.5°	168.7	211.5	284.2	332.2	350.4
75°	132.4	180.4	251.8	294.6	303.7
77.5°	98.6	149.2	218.0	236.2	229.7
80°	70.1	119.4	170.0	160.9	164.8
82.5°	45.4	90.8	105.1	119.4	123.3
85°	26.0	53.2	64.9	70.1	72.7
87.5°	11.7	19.5	26.0	26.0	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)