

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: P275968

Luminaire Tested: **24CZ2-30HE-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275968
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-30HE-UNV-L93050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2468.6 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

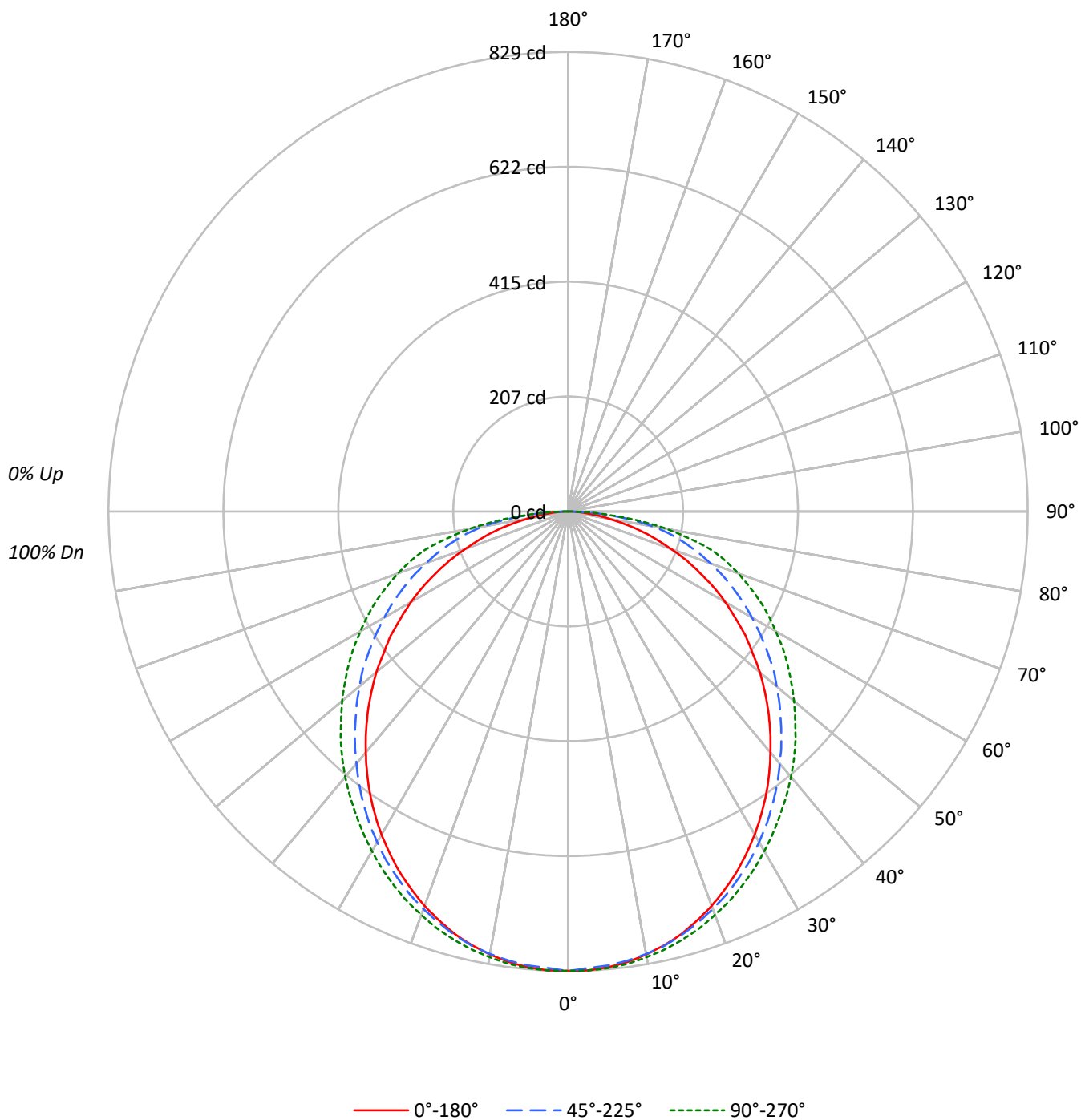
Input Watts (W): 19.995837
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1115	1115	1115
5°	1115	1110	1117
10°	1109	1108	1116
15°	1099	1102	1113
20°	1084	1092	1109
25°	1067	1082	1105
30°	1046	1070	1100
35°	1023	1057	1096
40°	997	1043	1098
45°	972	1033	1104
50°	945	1028	1114
55°	916	1026	1134
60°	880	1031	1164
65°	834	1046	1215
70°	775	1073	1284
75°	706	1127	1392
80°	581	1213	1392
85°	445	1119	1195



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	3.2
10°-20°	223.8	9.1
20°-30°	336.8	13.6
30°-40°	403.6	16.3
40°-50°	420.6	17.0
50°-60°	391.3	15.9
60°-70°	322.3	13.1
70°-80°	219.5	8.9
80°-90°	72.5	2.9
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°	638.9	25.9
0°-40°	1042.5	42.2
0°-60°	1854.4	75.1
0°-90°	2468.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2468.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	829	829	829	829	829	
5°	826	826	822	826	827	78
15°	789	790	791	798	799	222
25°	718	722	729	742	744	331
35°	623	630	643	661	667	389
45°	511	522	543	570	580	394
55°	390	404	438	472	484	348
65°	262	284	329	367	382	260
75°	136	166	217	255	268	143
85°	29	56	72	77	77	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	828.8	828.8	828.8	828.8	828.8
2.5°	828.8	828.8	824.7	828.8	828.8
5°	825.5	825.5	822.2	826.3	827.2
7.5°	819.8	820.6	817.3	822.2	823.1
10°	811.5	812.3	810.7	815.6	816.5
12.5°	801.6	802.5	802.5	808.2	809.0
15°	789.3	790.1	790.9	798.3	799.2
17.5°	773.6	776.1	777.7	786.8	788.4
20°	757.1	759.6	762.9	772.8	774.4
22.5°	738.2	741.5	747.3	758.0	760.4
25°	718.4	721.7	729.1	741.5	744.0
27.5°	696.2	701.1	710.2	723.4	726.7
30°	673.1	678.1	688.8	702.8	707.7
32.5°	648.4	655.0	667.3	683.0	687.9
35°	622.9	630.3	643.4	660.7	667.3
37.5°	595.7	603.9	619.6	638.5	646.7
40°	567.7	577.5	594.0	616.3	625.3
42.5°	539.6	548.7	569.3	593.2	603.1
45°	510.8	521.5	542.9	570.1	580.0
47.5°	481.1	491.9	517.4	546.2	555.3
50°	451.5	462.2	491.0	521.5	532.2
52.5°	419.4	433.4	466.3	496.8	507.5
55°	390.5	403.7	437.5	472.1	483.6
57.5°	357.6	373.2	410.3	446.5	458.9
60°	327.1	343.6	383.1	420.2	432.5
62.5°	295.8	313.9	355.9	393.8	407.8
65°	262.0	284.2	328.7	367.4	381.5
67.5°	231.5	254.6	301.5	341.1	353.4
70°	196.9	224.9	272.7	312.2	326.3
72.5°	167.2	195.3	245.5	284.2	298.2
75°	135.9	166.4	216.7	255.4	267.8
77.5°	104.6	138.4	188.7	218.3	222.4
80°	75.0	110.4	156.5	173.8	179.6
82.5°	52.7	84.9	115.3	126.9	130.2
85°	28.8	56.0	72.5	77.4	77.4
87.5°	12.4	23.9	28.8	29.7	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)