

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: P276274

Luminaire Tested: **24CZ2-30-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276274
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: 24CZ2-30-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2704.6 lumens
Efficiency: N/A
Efficacy: 120.7 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

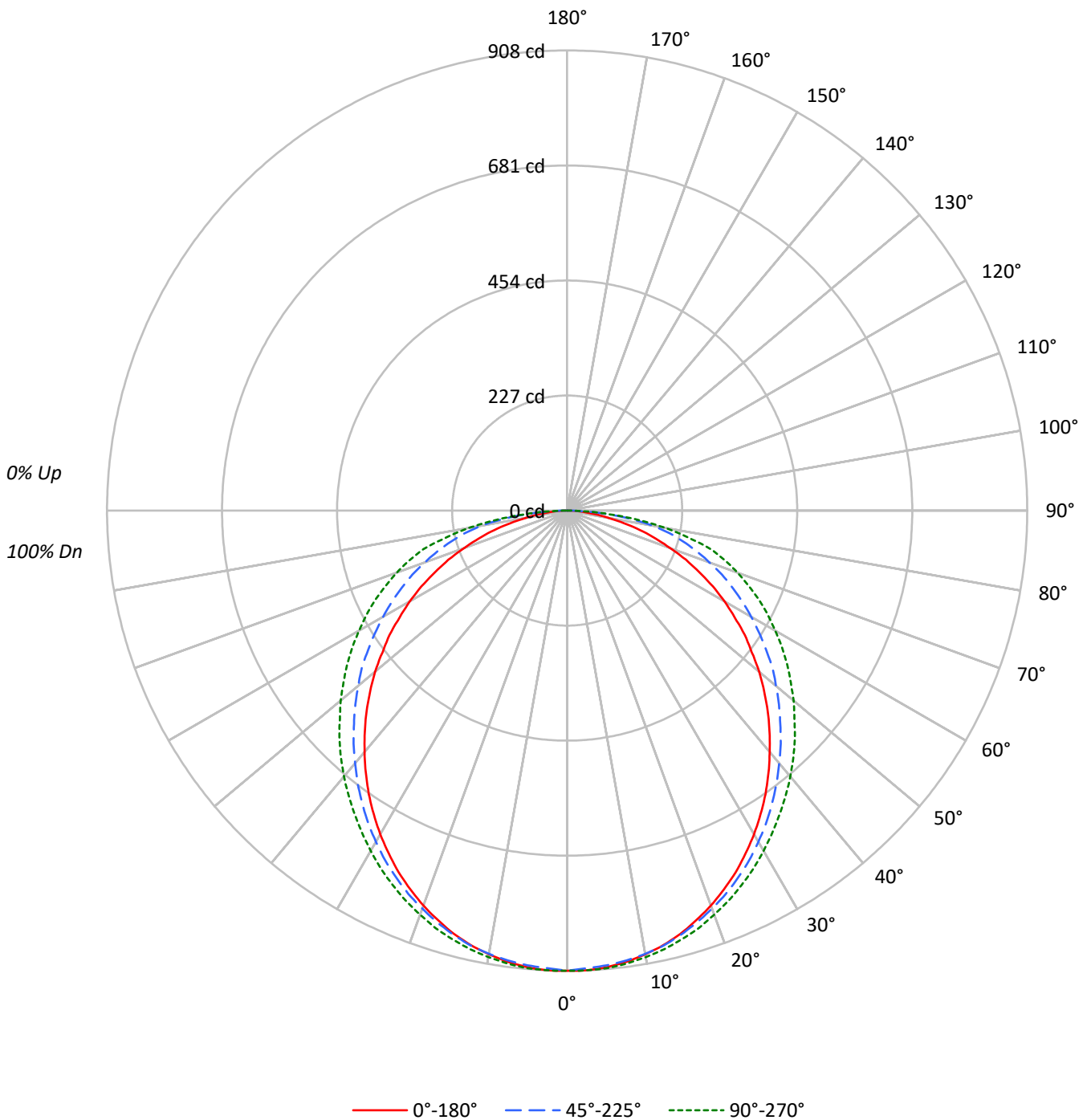
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1222	1222	1222
5°	1222	1217	1224
10°	1215	1213	1222
15°	1204	1207	1220
20°	1188	1197	1215
25°	1169	1186	1210
30°	1146	1172	1205
35°	1121	1158	1201
40°	1092	1143	1203
45°	1065	1132	1209
50°	1036	1126	1221
55°	1004	1124	1243
60°	964	1129	1275
65°	914	1147	1330
70°	849	1175	1406
75°	774	1234	1525
80°	636	1329	1525
85°	488	1226	1309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	3.2
10°-20°	245.2	9.1
20°-30°	369.0	13.6
30°-40°	442.2	16.3
40°-50°	460.8	17.0
50°-60°	428.7	15.9
60°-70°	353.1	13.1
70°-80°	240.5	8.9
80°-90°	79.4	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°	700.0	25.9
0°-40°	1142.2	42.2
0°-60°	2031.7	75.1
0°-90°	2704.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2704.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	904	904	901	905	906	86
15°	865	866	866	875	876	244
25°	787	791	799	812	815	362
35°	682	690	705	724	731	427
45°	560	571	595	625	636	432
55°	428	442	479	517	530	381
65°	287	311	360	403	418	285
75°	149	182	237	280	293	157
85°	32	61	79	85	85	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	908.1	908.1	908.1	908.1	908.1
2.5°	908.1	908.1	903.6	908.1	908.1
5°	904.5	904.5	900.8	905.4	906.3
7.5°	898.1	899.0	895.4	900.8	901.7
10°	889.1	890.0	888.2	893.6	894.5
12.5°	878.3	879.2	879.2	885.5	886.4
15°	864.7	865.6	866.5	874.7	875.6
17.5°	847.6	850.3	852.1	862.0	863.8
20°	829.5	832.2	835.9	846.7	848.5
22.5°	808.8	812.4	818.7	830.4	833.1
25°	787.1	790.7	798.8	812.4	815.1
27.5°	762.7	768.2	778.1	792.5	796.1
30°	737.5	742.9	754.6	770.0	775.4
32.5°	710.4	717.6	731.1	748.3	753.7
35°	682.4	690.5	705.0	723.9	731.1
37.5°	652.6	661.6	678.8	699.6	708.6
40°	621.9	632.8	650.8	675.2	685.1
42.5°	591.2	601.2	623.7	649.9	660.7
45°	559.6	571.4	594.8	624.6	635.5
47.5°	527.1	538.9	566.9	598.5	608.4
50°	494.7	506.4	538.0	571.4	583.1
52.5°	459.4	474.8	510.9	544.3	556.0
55°	427.9	442.3	479.3	517.2	529.9
57.5°	391.7	408.9	449.5	489.2	502.8
60°	358.4	376.4	419.7	460.4	473.9
62.5°	324.1	343.9	389.9	431.5	446.8
65°	287.0	311.4	360.2	402.6	417.9
67.5°	253.6	278.9	330.4	373.7	387.2
70°	215.7	246.4	298.8	342.1	357.4
72.5°	183.2	213.9	269.0	311.4	326.8
75°	148.9	182.3	237.4	279.8	293.4
77.5°	114.6	151.6	206.7	239.2	243.7
80°	82.1	121.0	171.5	190.5	196.8
82.5°	57.8	93.0	126.4	139.0	142.6
85°	31.6	61.4	79.4	84.8	84.8
87.5°	13.5	26.2	31.6	32.5	33.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)