

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: P276138

Luminaire Tested: **24CZ2-30-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276138
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-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2983.7 lumens
Efficiency: N/A
Efficacy: 133.1 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

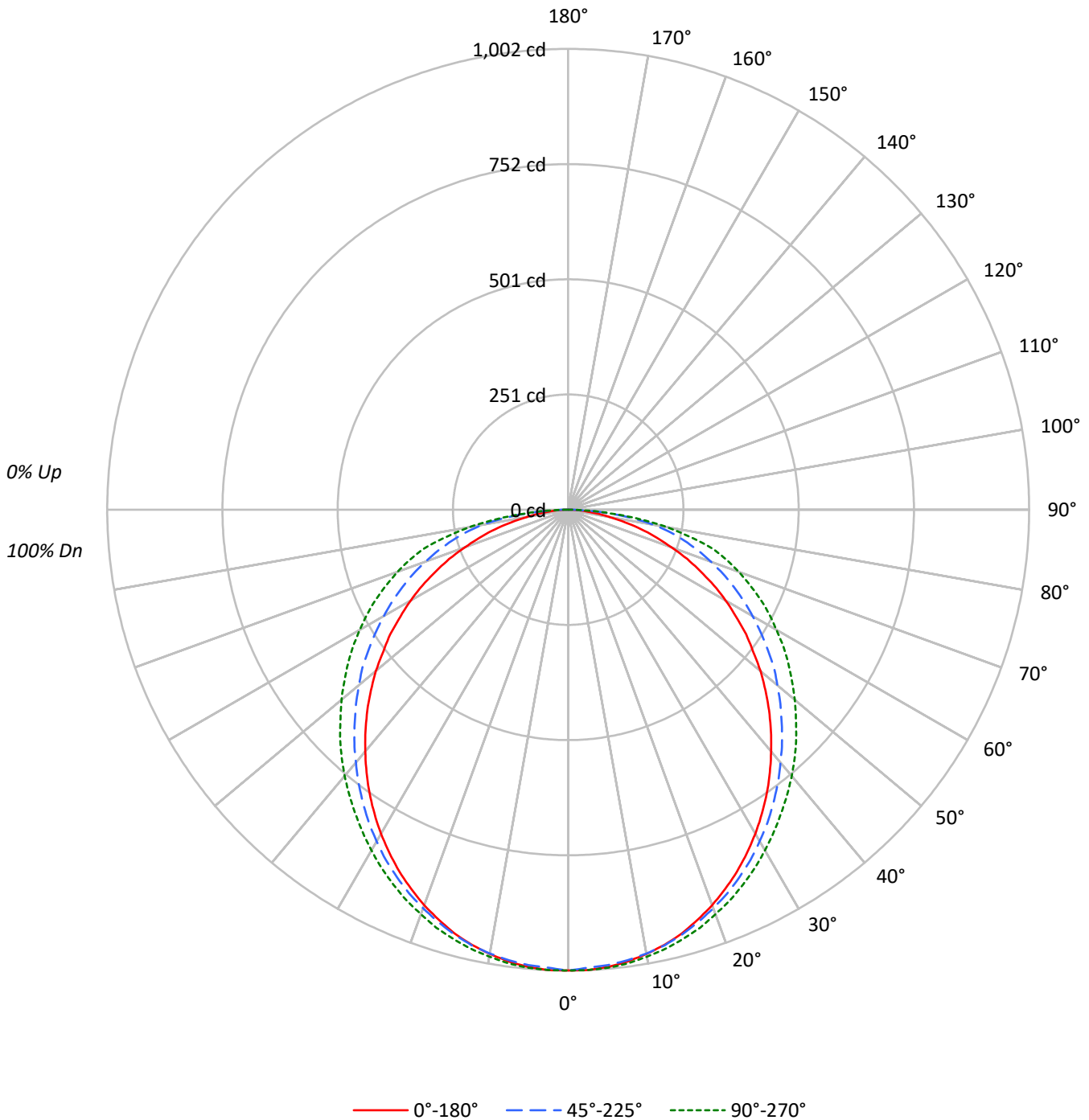
Input Watts (W): 22.413
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1348	1348	1348
5°	1348	1342	1350
10°	1340	1339	1348
15°	1329	1332	1345
20°	1310	1320	1340
25°	1289	1308	1335
30°	1264	1293	1329
35°	1237	1277	1325
40°	1205	1261	1327
45°	1175	1249	1334
50°	1142	1242	1347
55°	1107	1240	1371
60°	1064	1246	1407
65°	1008	1265	1468
70°	936	1297	1551
75°	854	1362	1682
80°	702	1466	1682
85°	539	1352	1445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	3.2
10°-20°	270.5	9.1
20°-30°	407.0	13.6
30°-40°	487.8	16.3
40°-50°	508.3	17.0
50°-60°	472.9	15.9
60°-70°	389.5	13.1
70°-80°	265.3	8.9
80°-90°	87.6	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°	772.3	25.9
0°-40°	1260.0	42.2
0°-60°	2241.3	75.1
0°-90°	2983.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2983.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	998	998	994	999	1000	95
15°	954	955	956	965	966	269
25°	868	872	881	896	899	400
35°	753	762	778	799	807	471
45°	617	630	656	689	701	476
55°	472	488	529	571	584	421
65°	317	344	397	444	461	314
75°	164	201	262	309	324	173
85°	35	68	88	94	94	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1001.8	1001.8	1001.8	1001.8	1001.8
2.5°	1001.8	1001.8	996.8	1001.8	1001.8
5°	997.8	997.8	993.8	998.8	999.8
7.5°	990.8	991.8	987.8	993.8	994.8
10°	980.8	981.8	979.9	985.8	986.8
12.5°	968.9	969.9	969.9	976.9	977.9
15°	954.0	955.0	956.0	964.9	965.9
17.5°	935.0	938.0	940.0	951.0	953.0
20°	915.1	918.1	922.1	934.0	936.0
22.5°	892.2	896.2	903.2	916.1	919.1
25°	868.3	872.3	881.3	896.2	899.2
27.5°	841.4	847.4	858.4	874.3	878.3
30°	813.6	819.5	832.5	849.4	855.4
32.5°	783.7	791.7	806.6	825.5	831.5
35°	752.8	761.8	777.7	798.6	806.6
37.5°	720.0	729.9	748.8	771.7	781.7
40°	686.1	698.0	718.0	744.8	755.8
42.5°	652.2	663.2	688.1	717.0	728.9
45°	617.4	630.3	656.2	689.1	701.0
47.5°	581.5	594.5	625.4	660.2	671.2
50°	545.7	558.6	593.5	630.3	643.3
52.5°	506.9	523.8	563.6	600.5	613.4
55°	472.0	487.9	528.8	570.6	584.5
57.5°	432.2	451.1	495.9	539.7	554.7
60°	395.3	415.2	463.0	507.9	522.8
62.5°	357.5	379.4	430.2	476.0	492.9
65°	316.7	343.5	397.3	444.1	461.0
67.5°	279.8	307.7	364.5	412.3	427.2
70°	238.0	271.8	329.6	377.4	394.3
72.5°	202.1	236.0	296.7	343.5	360.5
75°	164.3	201.1	261.9	308.7	323.6
77.5°	126.5	167.3	228.0	263.9	268.9
80°	90.6	133.4	189.2	210.1	217.1
82.5°	63.7	102.6	139.4	153.4	157.3
85°	34.9	67.7	87.6	93.6	93.6
87.5°	14.9	28.9	34.9	35.8	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)