

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: P276045

Luminaire Tested: **24CZ2-30HE-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276045
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-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2898.5 lumens
Efficiency: N/A
Efficacy: 146.3 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

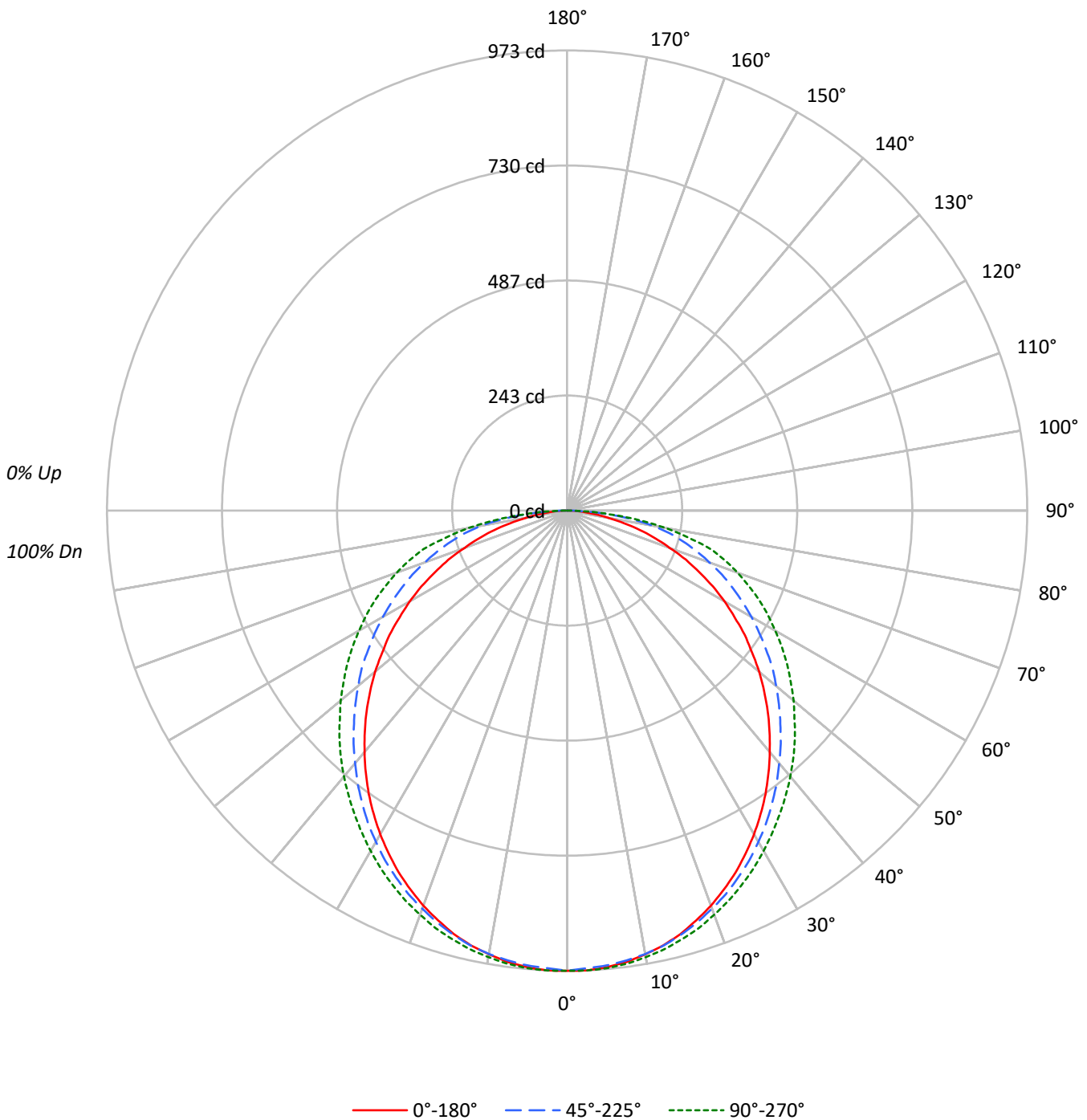
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1309	1309	1309
5°	1309	1304	1312
10°	1302	1301	1310
15°	1291	1294	1307
20°	1273	1283	1302
25°	1252	1271	1297
30°	1228	1256	1291
35°	1201	1241	1287
40°	1171	1225	1290
45°	1141	1213	1296
50°	1110	1207	1308
55°	1076	1205	1332
60°	1033	1210	1367
65°	979	1229	1426
70°	910	1260	1507
75°	830	1323	1634
80°	682	1424	1634
85°	523	1314	1403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	3.2
10°-20°	262.8	9.1
20°-30°	395.4	13.6
30°-40°	473.9	16.3
40°-50°	493.8	17.0
50°-60°	459.4	15.9
60°-70°	378.4	13.1
70°-80°	257.7	8.9
80°-90°	85.1	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°	750.2	25.9
0°-40°	1224.1	42.2
0°-60°	2177.3	75.1
0°-90°	2898.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	969	969	965	970	971	92
15°	927	928	929	937	938	261
25°	844	847	856	871	874	388
35°	731	740	756	776	784	457
45°	600	612	638	669	681	463
55°	458	474	514	554	568	409
65°	308	334	386	431	448	305
75°	160	195	254	300	314	168
85°	34	66	85	91	91	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	973.2	973.2	973.2	973.2	973.2
2.5°	973.2	973.2	968.3	973.2	973.2
5°	969.3	969.3	965.4	970.3	971.2
7.5°	962.5	963.5	959.6	965.4	966.4
10°	952.9	953.8	951.9	957.7	958.7
12.5°	941.3	942.2	942.2	949.0	950.0
15°	926.7	927.7	928.7	937.4	938.4
17.5°	908.4	911.3	913.2	923.8	925.8
20°	889.0	891.9	895.8	907.4	909.3
22.5°	866.8	870.6	877.4	890.0	892.9
25°	843.5	847.4	856.1	870.6	873.5
27.5°	817.4	823.2	833.9	849.4	853.2
30°	790.3	796.1	808.7	825.2	831.0
32.5°	761.3	769.1	783.6	802.0	807.8
35°	731.3	740.0	755.5	775.8	783.6
37.5°	699.4	709.1	727.5	749.7	759.4
40°	666.5	678.1	697.5	723.6	734.2
42.5°	633.6	644.3	668.5	696.5	708.1
45°	599.8	612.3	637.5	669.4	681.0
47.5°	564.9	577.5	607.5	641.4	652.0
50°	530.1	542.7	576.6	612.3	624.9
52.5°	492.4	508.8	547.5	583.3	595.9
55°	458.5	474.0	513.7	554.3	567.8
57.5°	419.8	438.2	481.8	524.3	538.8
60°	384.0	403.4	449.8	493.4	507.9
62.5°	347.3	368.6	417.9	462.4	478.8
65°	307.6	333.7	386.0	431.4	447.9
67.5°	271.8	298.9	354.1	400.5	415.0
70°	231.2	264.1	320.2	366.6	383.1
72.5°	196.4	229.3	288.3	333.7	350.2
75°	159.6	195.4	254.4	299.9	314.4
77.5°	122.9	162.5	221.5	256.4	261.2
80°	88.0	129.6	183.8	204.1	210.9
82.5°	61.9	99.6	135.4	149.0	152.8
85°	33.9	65.8	85.1	90.9	90.9
87.5°	14.5	28.1	33.9	34.8	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)