

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: P277319

Luminaire Tested: **22CZ2-44HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277319
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-27)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3908.0 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.27 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

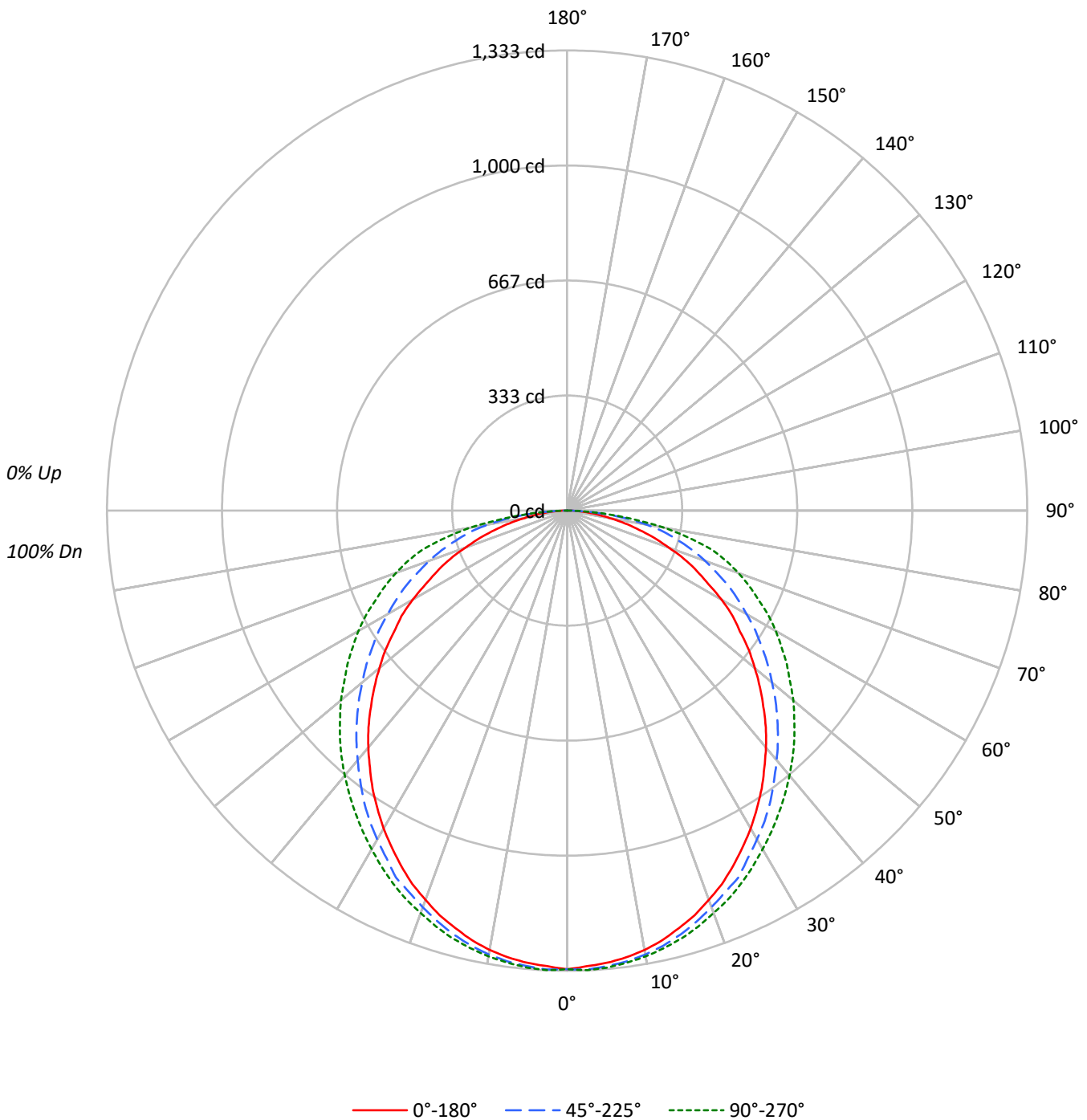
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	96	93	96	93	90	92	90	87	89	86	84	82
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3576	3576	3576
5°	3553	3579	3589
10°	3531	3568	3584
15°	3488	3541	3573
20°	3436	3502	3552
25°	3374	3483	3540
30°	3304	3418	3519
35°	3228	3373	3512
40°	3148	3317	3519
45°	3059	3279	3542
50°	2971	3244	3582
55°	2869	3230	3645
60°	2784	3229	3757
65°	2645	3282	3894
70°	2466	3344	4146
75°	2259	3459	4479
80°	1967	3606	4410
85°	1723	3205	3504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.7	3.2
10°-20°	357.9	9.2
20°-30°	537.3	13.7
30°-40°	642.1	16.4
40°-50°	667.7	17.1
50°-60°	618.8	15.8
60°-70°	507.6	13.0
70°-80°	343.1	8.8
80°-90°	107.8	2.8
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°	1020.9	26.1
0°-40°	1663.0	42.6
0°-60°	2949.5	75.5
0°-90°	3908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1315	1317	1325	1327	1329	125
15°	1252	1258	1271	1279	1283	353
25°	1136	1146	1173	1186	1192	523
35°	983	996	1027	1058	1069	614
45°	804	819	862	912	931	621
55°	612	631	688	750	777	550
65°	415	438	515	583	612	411
75°	217	254	333	400	431	230
85°	56	77	104	115	114	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.8	1328.8	1328.8	1328.8	1328.8
2.5°	1321.1	1324.9	1330.7	1332.6	1332.6
5°	1315.3	1317.3	1324.9	1326.9	1328.8
7.5°	1305.7	1309.6	1317.3	1319.2	1321.1
10°	1292.3	1296.1	1305.7	1309.6	1311.5
12.5°	1274.9	1278.8	1290.3	1296.1	1298.0
15°	1251.9	1257.6	1271.1	1278.8	1282.6
17.5°	1228.8	1234.6	1248.0	1259.6	1263.4
20°	1200.0	1213.4	1223.0	1238.4	1240.3
22.5°	1171.1	1178.8	1196.1	1211.5	1219.2
25°	1136.5	1146.1	1173.0	1186.5	1192.3
27.5°	1100.0	1113.4	1134.6	1155.7	1163.4
30°	1063.4	1073.0	1100.0	1125.0	1132.6
32.5°	1023.0	1036.5	1065.3	1090.3	1101.9
35°	982.7	996.1	1026.9	1057.6	1069.2
37.5°	938.4	953.8	984.6	1021.1	1036.5
40°	896.1	907.7	944.2	988.4	1001.9
42.5°	851.9	865.3	903.8	951.9	967.3
45°	803.8	819.2	861.5	911.5	930.7
47.5°	757.7	773.0	819.2	869.2	892.3
50°	709.6	728.8	775.0	832.7	855.7
52.5°	663.4	680.7	732.7	792.3	813.4
55°	611.5	630.7	688.4	750.0	776.9
57.5°	569.2	582.7	646.1	709.6	736.5
60°	517.3	534.6	600.0	667.3	698.0
62.5°	461.5	490.4	557.7	626.9	657.7
65°	415.4	438.4	515.4	582.7	611.5
67.5°	367.3	392.3	467.3	538.4	571.1
70°	313.4	346.1	425.0	496.1	526.9
72.5°	265.4	300.0	380.8	450.0	482.7
75°	217.3	253.8	332.7	400.0	430.8
77.5°	171.1	211.5	288.4	340.4	359.6
80°	126.9	165.4	232.7	269.2	284.6
82.5°	88.5	121.1	171.1	190.4	194.2
85°	55.8	76.9	103.8	115.4	113.5
87.5°	25.0	30.8	38.5	42.3	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)