

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: P277318

Luminaire Tested: **22CZ2-44HE-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277318
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-5700K
Description: CRUZE 2.0 2x2 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: 3882.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

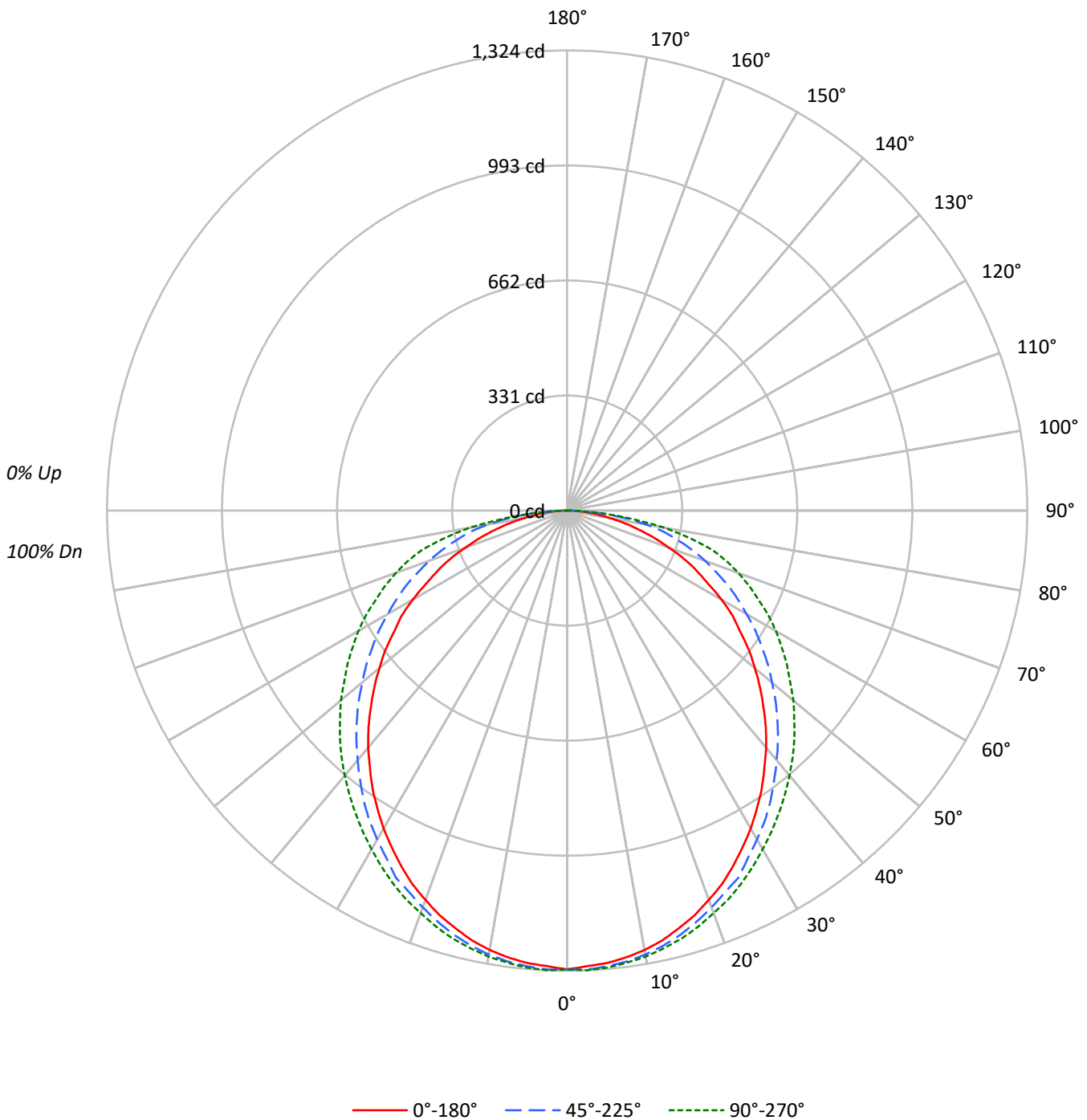
Input Watts (W): 35.619
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3552	3552	3552
5°	3529	3555	3566
10°	3508	3544	3560
15°	3464	3517	3550
20°	3414	3479	3528
25°	3352	3460	3516
30°	3282	3395	3496
35°	3207	3351	3489
40°	3127	3295	3496
45°	3039	3257	3518
50°	2951	3223	3558
55°	2850	3209	3620
60°	2765	3208	3732
65°	2627	3259	3868
70°	2450	3322	4118
75°	2245	3436	4449
80°	1954	3581	4381
85°	1711	3186	3480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.8	3.2
10°-20°	355.6	9.2
20°-30°	533.8	13.7
30°-40°	637.8	16.4
40°-50°	663.2	17.1
50°-60°	614.7	15.8
60°-70°	504.2	13.0
70°-80°	340.8	8.8
80°-90°	107.1	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°	1014.1	26.1
0°-40°	1651.9	42.6
0°-60°	2929.8	75.5
0°-90°	3882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1320	1320	1320	1320	1320	
5°	1307	1308	1316	1318	1320	124
15°	1244	1249	1263	1270	1274	351
25°	1129	1138	1165	1179	1184	520
35°	976	990	1020	1051	1062	610
45°	798	814	856	905	924	617
55°	607	626	684	745	772	546
65°	413	436	512	579	607	408
75°	216	252	330	397	428	229
85°	55	76	103	115	113	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1320.0	1320.0	1320.0	1320.0	1320.0
2.5°	1312.3	1316.1	1321.9	1323.8	1323.8
5°	1306.6	1308.5	1316.1	1318.0	1320.0
7.5°	1297.0	1300.8	1308.5	1310.4	1312.3
10°	1283.7	1287.5	1297.0	1300.8	1302.8
12.5°	1266.5	1270.3	1281.7	1287.5	1289.4
15°	1243.5	1249.3	1262.6	1270.3	1274.1
17.5°	1220.6	1226.4	1239.7	1251.2	1255.0
20°	1192.0	1205.3	1214.9	1230.2	1232.1
22.5°	1163.3	1171.0	1188.1	1203.4	1211.1
25°	1128.9	1138.5	1165.2	1178.6	1184.3
27.5°	1092.6	1106.0	1127.0	1148.0	1155.7
30°	1056.3	1065.9	1092.6	1117.5	1125.1
32.5°	1016.2	1029.6	1058.3	1083.1	1094.5
35°	976.1	989.5	1020.0	1050.6	1062.1
37.5°	932.2	947.5	978.0	1014.3	1029.6
40°	890.2	901.6	937.9	981.8	995.2
42.5°	846.2	859.6	897.8	945.6	960.8
45°	798.5	813.7	855.8	905.4	924.5
47.5°	752.6	767.9	813.7	863.4	886.3
50°	704.9	724.0	769.8	827.1	850.0
52.5°	659.0	676.2	727.8	787.0	808.0
55°	607.4	626.5	683.9	745.0	771.7
57.5°	565.4	578.8	641.8	704.9	731.6
60°	513.8	531.0	596.0	662.8	693.4
62.5°	458.4	487.1	554.0	622.7	653.3
65°	412.6	435.5	511.9	578.8	607.4
67.5°	364.8	389.7	464.2	534.9	567.3
70°	311.4	343.8	422.2	492.8	523.4
72.5°	263.6	298.0	378.2	447.0	479.5
75°	215.9	252.1	330.5	397.3	427.9
77.5°	170.0	210.1	286.5	338.1	357.2
80°	126.1	164.3	231.1	267.4	282.7
82.5°	87.9	120.3	170.0	189.1	192.9
85°	55.4	76.4	103.2	114.6	112.7
87.5°	24.8	30.6	38.2	42.0	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)