

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: P277252

Luminaire Tested: **22CZ2-39HE-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277252
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: 22CZ2-39HE-UNV-L82765-W2A1-U-4500K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3728.0 lumens
Efficiency: N/A
Efficacy: 121.5 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

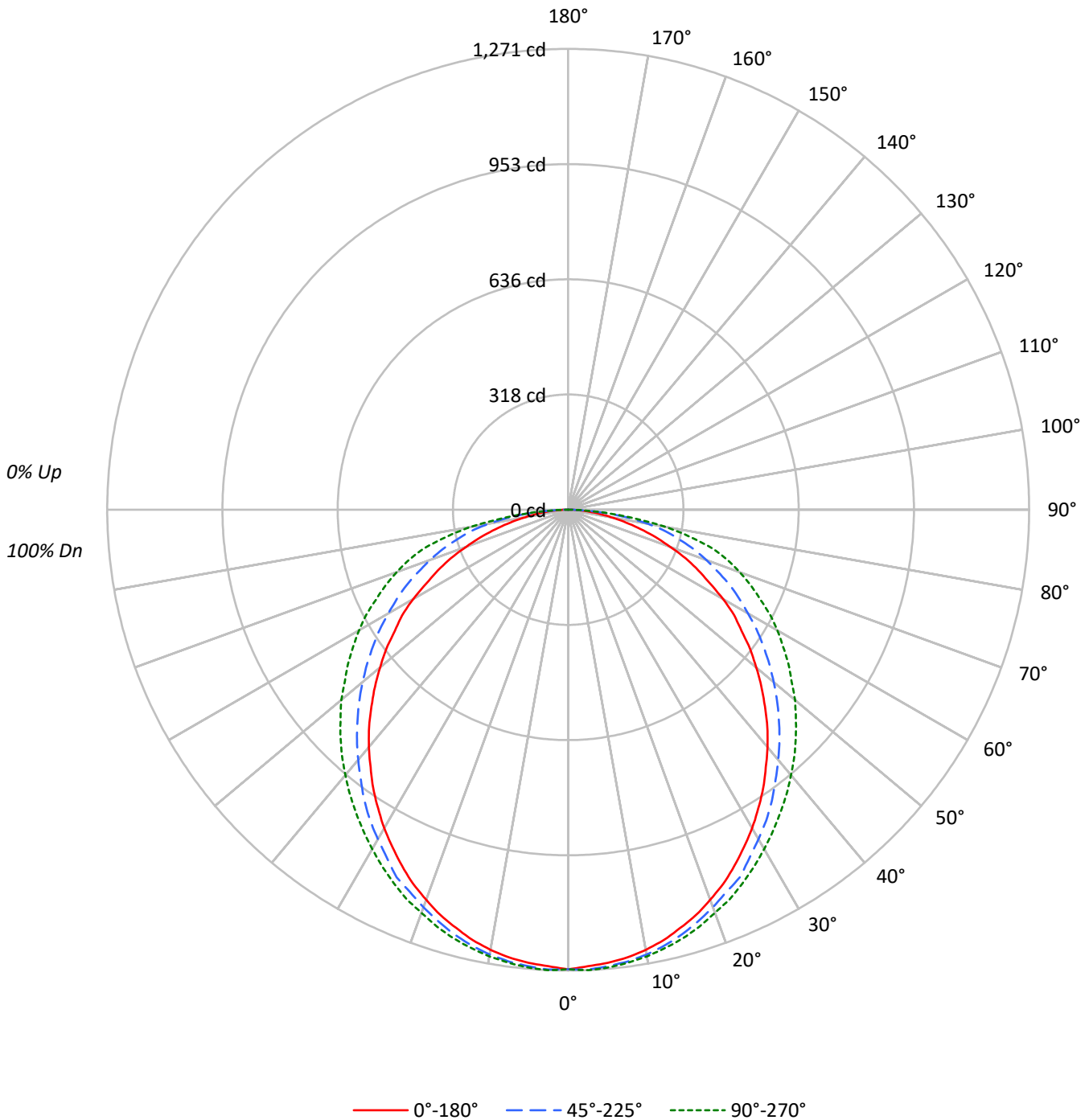
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3411	3411	3411
5°	3389	3414	3424
10°	3368	3404	3419
15°	3327	3378	3409
20°	3278	3341	3388
25°	3219	3322	3377
30°	3152	3260	3357
35°	3079	3218	3350
40°	3003	3164	3357
45°	2918	3127	3379
50°	2834	3095	3417
55°	2737	3081	3477
60°	2656	3080	3584
65°	2523	3130	3714
70°	2353	3190	3954
75°	2155	3300	4272
80°	1877	3440	4207
85°	1643	3060	3341



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.2
10°-20°	341.4	9.2
20°-30°	512.6	13.7
30°-40°	612.5	16.4
40°-50°	636.9	17.1
50°-60°	590.3	15.8
60°-70°	484.2	13.0
70°-80°	327.3	8.8
80°-90°	102.9	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°	973.9	26.1
0°-40°	1586.4	42.6
0°-60°	2813.6	75.5
0°-90°	3728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1268	1268	1268	1268	1268	
5°	1255	1257	1264	1266	1268	119
15°	1194	1200	1213	1220	1224	337
25°	1084	1093	1119	1132	1137	499
35°	937	950	980	1009	1020	586
45°	767	782	822	870	888	592
55°	583	602	657	715	741	524
65°	396	418	492	556	583	392
75°	207	242	317	382	411	220
85°	53	73	99	110	108	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1267.6	1267.6	1267.6	1267.6	1267.6
2.5°	1260.3	1263.9	1269.4	1271.3	1271.3
5°	1254.7	1256.6	1263.9	1265.8	1267.6
7.5°	1245.6	1249.2	1256.6	1258.4	1260.3
10°	1232.7	1236.4	1245.6	1249.2	1251.1
12.5°	1216.2	1219.9	1230.9	1236.4	1238.2
15°	1194.2	1199.7	1212.6	1219.9	1223.6
17.5°	1172.2	1177.7	1190.5	1201.5	1205.2
20°	1144.7	1157.5	1166.7	1181.4	1183.2
22.5°	1117.2	1124.5	1141.0	1155.7	1163.0
25°	1084.1	1093.3	1119.0	1131.8	1137.3
27.5°	1049.3	1062.1	1082.3	1102.5	1109.8
30°	1014.4	1023.6	1049.3	1073.1	1080.5
32.5°	975.9	988.8	1016.3	1040.1	1051.1
35°	937.4	950.2	979.6	1008.9	1019.9
37.5°	895.2	909.9	939.2	974.1	988.8
40°	854.8	865.8	900.7	942.9	955.7
42.5°	812.7	825.5	862.2	908.0	922.7
45°	766.8	781.5	821.8	869.5	887.9
47.5°	722.8	737.4	781.5	829.2	851.2
50°	676.9	695.2	739.3	794.3	816.3
52.5°	632.9	649.4	698.9	755.8	776.0
55°	583.3	601.7	656.7	715.4	741.1
57.5°	543.0	555.8	616.4	676.9	702.6
60°	493.5	510.0	572.3	636.5	665.9
62.5°	440.3	467.8	532.0	598.0	627.4
65°	396.2	418.2	491.6	555.8	583.3
67.5°	350.4	374.2	445.8	513.6	544.8
70°	299.0	330.2	405.4	473.3	502.6
72.5°	253.2	286.2	363.2	429.3	460.4
75°	207.3	242.1	317.4	381.6	410.9
77.5°	163.3	201.8	275.2	324.7	343.0
80°	121.1	157.8	222.0	256.8	271.5
82.5°	84.4	115.6	163.3	181.6	185.3
85°	53.2	73.4	99.1	110.1	108.2
87.5°	23.8	29.4	36.7	40.4	38.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)