

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: P277254

Luminaire Tested: **22CZ2-39HE-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277254
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-5500K
Description: CRUZE 2.0 2x2 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: 3817.0 lumens
Efficiency: N/A
Efficacy: 123.3 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

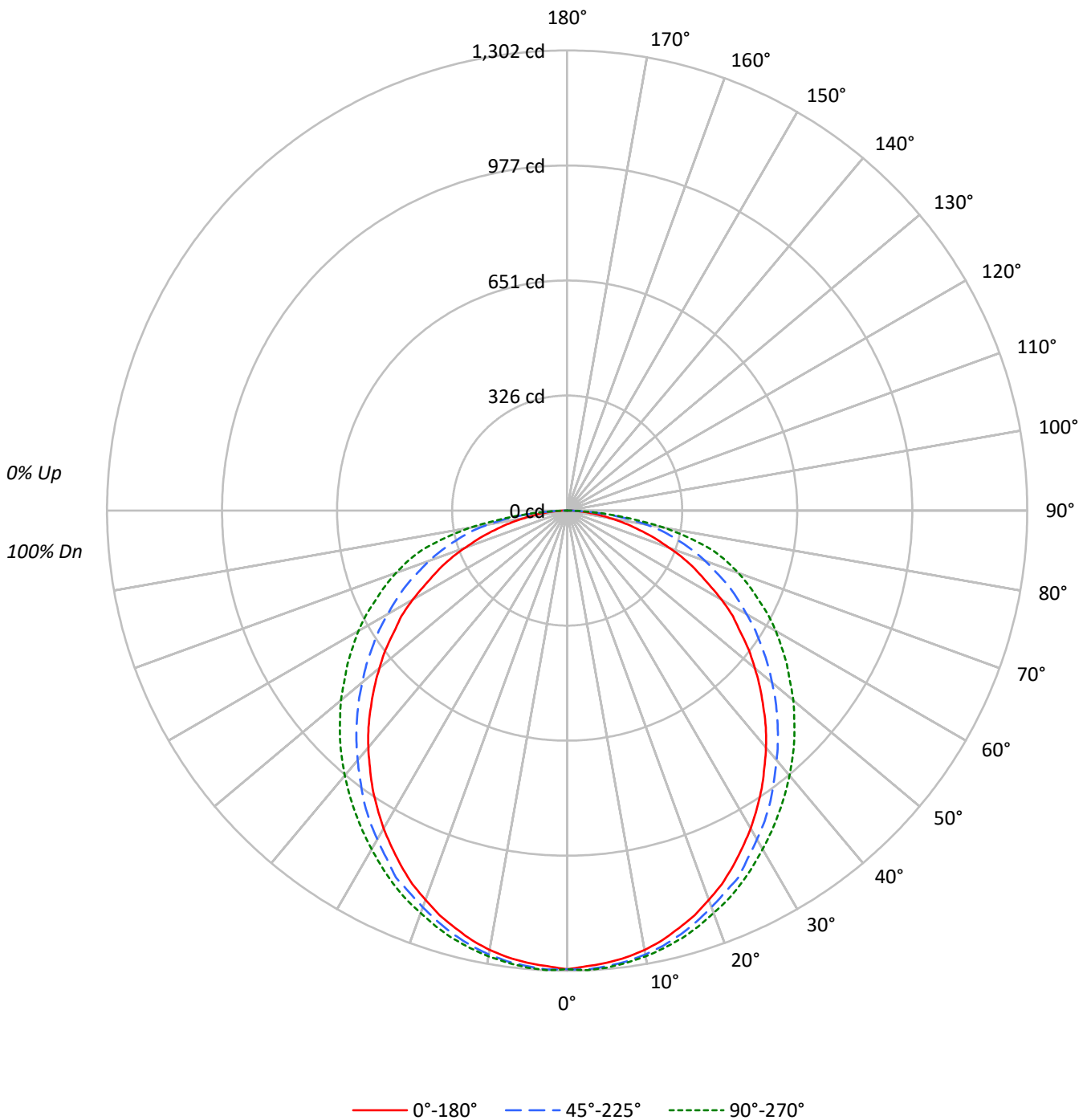
Input Watts (W): 30.969
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3493	3493	3493
5°	3470	3496	3506
10°	3449	3485	3500
15°	3406	3459	3490
20°	3356	3421	3469
25°	3296	3402	3458
30°	3228	3338	3438
35°	3153	3295	3431
40°	3075	3240	3438
45°	2988	3202	3460
50°	2902	3169	3499
55°	2802	3155	3560
60°	2719	3154	3669
65°	2583	3205	3803
70°	2408	3266	4049
75°	2206	3378	4374
80°	1922	3522	4308
85°	1683	3131	3421



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	3.2
10°-20°	349.6	9.2
20°-30°	524.8	13.7
30°-40°	627.1	16.4
40°-50°	652.1	17.1
50°-60°	604.4	15.8
60°-70°	495.8	13.0
70°-80°	335.1	8.8
80°-90°	105.3	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°	997.2	26.1
0°-40°	1624.3	42.6
0°-60°	2880.8	75.5
0°-90°	3817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3817.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1285	1287	1294	1296	1298	122
15°	1223	1228	1242	1249	1253	345
25°	1110	1119	1146	1159	1164	511
35°	960	973	1003	1033	1044	600
45°	785	800	841	890	909	606
55°	597	616	672	732	759	537
65°	406	428	503	569	597	401
75°	212	248	325	391	421	225
85°	54	75	101	113	111	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1297.9	1297.9	1297.9	1297.9	1297.9
2.5°	1290.3	1294.1	1299.7	1301.6	1301.6
5°	1284.7	1286.6	1294.1	1296.0	1297.9
7.5°	1275.3	1279.1	1286.6	1288.5	1290.3
10°	1262.2	1265.9	1275.3	1279.1	1280.9
12.5°	1245.3	1249.0	1260.3	1265.9	1267.8
15°	1222.7	1228.4	1241.5	1249.0	1252.8
17.5°	1200.2	1205.8	1219.0	1230.2	1234.0
20°	1172.0	1185.2	1194.5	1209.6	1211.5
22.5°	1143.8	1151.3	1168.3	1183.3	1190.8
25°	1110.0	1119.4	1145.7	1158.9	1164.5
27.5°	1074.3	1087.5	1108.2	1128.8	1136.3
30°	1038.7	1048.0	1074.3	1098.8	1106.3
32.5°	999.2	1012.4	1040.5	1065.0	1076.2
35°	959.8	972.9	1003.0	1033.0	1044.3
37.5°	916.6	931.6	961.6	997.3	1012.4
40°	875.3	886.5	922.2	965.4	978.6
42.5°	832.1	845.2	882.8	929.7	944.7
45°	785.1	800.1	841.4	890.3	909.1
47.5°	740.0	755.0	800.1	849.0	871.5
50°	693.1	711.8	756.9	813.3	835.8
52.5°	648.0	664.9	715.6	773.8	794.5
55°	597.3	616.1	672.4	732.5	758.8
57.5°	556.0	569.1	631.1	693.1	719.4
60°	505.2	522.1	586.0	651.7	681.8
62.5°	450.8	478.9	544.7	612.3	642.4
65°	405.7	428.2	503.4	569.1	597.3
67.5°	358.7	383.2	456.4	525.9	557.8
70°	306.1	338.1	415.1	484.6	514.6
72.5°	259.2	293.0	371.9	439.5	471.4
75°	212.2	247.9	324.9	390.7	420.7
77.5°	167.2	206.6	281.7	332.4	351.2
80°	124.0	161.5	227.3	263.0	278.0
82.5°	86.4	118.3	167.2	185.9	189.7
85°	54.5	75.1	101.4	112.7	110.8
87.5°	24.4	30.1	37.6	41.3	39.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)