

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: P277253

Luminaire Tested: **22CZ2-39HE-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277253
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-5000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3779.0 lumens
Efficiency: N/A
Efficacy: 122.4 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

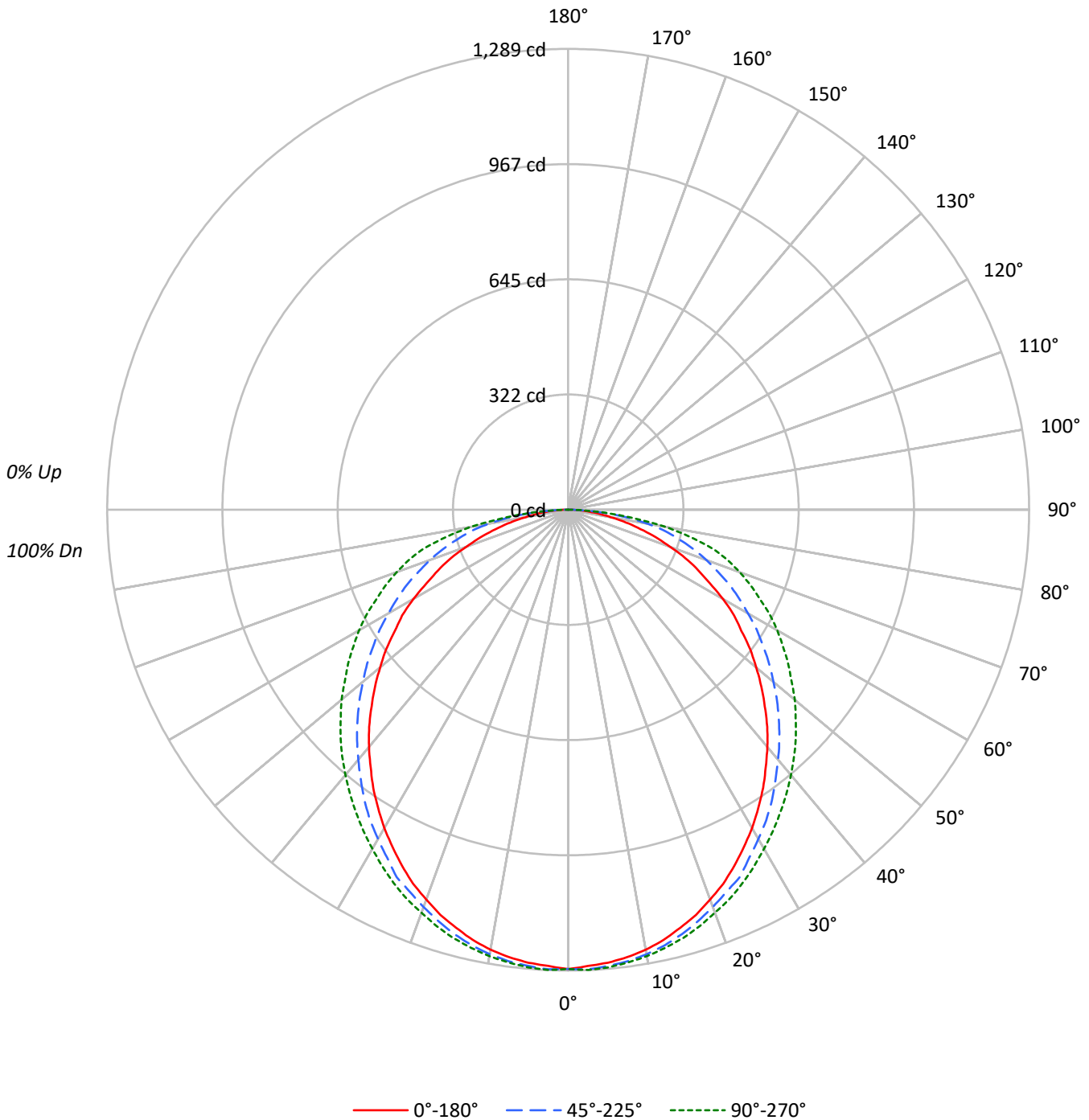
Input Watts (W): 30.876
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3458	3458	3458
5°	3436	3461	3471
10°	3415	3450	3465
15°	3372	3424	3455
20°	3323	3387	3435
25°	3263	3368	3423
30°	3195	3305	3403
35°	3121	3262	3396
40°	3044	3207	3403
45°	2958	3170	3425
50°	2873	3137	3464
55°	2774	3123	3524
60°	2692	3123	3633
65°	2558	3174	3765
70°	2385	3234	4009
75°	2184	3345	4330
80°	1901	3487	4265
85°	1664	3100	3387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.5	3.2
10°-20°	346.1	9.2
20°-30°	519.6	13.7
30°-40°	620.9	16.4
40°-50°	645.6	17.1
50°-60°	598.4	15.8
60°-70°	490.8	13.0
70°-80°	331.8	8.8
80°-90°	104.3	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°	987.2	26.1
0°-40°	1608.1	42.6
0°-60°	2852.1	75.5
0°-90°	3779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3779.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1285	1285	1285	1285	1285	
5°	1272	1274	1281	1283	1285	121
15°	1210	1216	1229	1237	1240	341
25°	1099	1108	1134	1147	1153	506
35°	950	963	993	1023	1034	594
45°	777	792	833	881	900	600
55°	591	610	666	725	751	531
65°	402	424	498	563	591	397
75°	210	246	322	387	416	223
85°	54	74	100	112	110	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.9	1284.9	1284.9	1284.9	1284.9
2.5°	1277.5	1281.2	1286.8	1288.6	1288.6
5°	1271.9	1273.8	1281.2	1283.1	1284.9
7.5°	1262.6	1266.3	1273.8	1275.6	1277.5
10°	1249.6	1253.3	1262.6	1266.3	1268.2
12.5°	1232.9	1236.6	1247.7	1253.3	1255.2
15°	1210.5	1216.1	1229.1	1236.6	1240.3
17.5°	1188.2	1193.8	1206.8	1218.0	1221.7
20°	1160.3	1173.4	1182.7	1197.5	1199.4
22.5°	1132.4	1139.9	1156.6	1171.5	1178.9
25°	1099.0	1108.3	1134.3	1147.3	1152.9
27.5°	1063.6	1076.7	1097.1	1117.6	1125.0
30°	1028.3	1037.6	1063.6	1087.8	1095.3
32.5°	989.3	1002.3	1030.2	1054.3	1065.5
35°	950.2	963.2	993.0	1022.7	1033.9
37.5°	907.4	922.3	952.1	987.4	1002.3
40°	866.5	877.7	913.0	955.8	968.8
42.5°	823.8	836.8	874.0	920.5	935.3
45°	777.3	792.2	833.1	881.4	900.0
47.5°	732.7	747.5	792.2	840.5	862.8
50°	686.2	704.8	749.4	805.2	827.5
52.5°	641.5	658.3	708.5	766.1	786.6
55°	591.3	609.9	665.7	725.2	751.2
57.5°	550.4	563.4	624.8	686.2	712.2
60°	500.2	516.9	580.2	645.3	675.0
62.5°	446.3	474.2	539.3	606.2	636.0
65°	401.7	424.0	498.4	563.4	591.3
67.5°	355.2	379.3	451.9	520.7	552.3
70°	303.1	334.7	411.0	479.8	509.5
72.5°	256.6	290.1	368.2	435.1	466.7
75°	210.1	245.5	321.7	386.8	416.5
77.5°	165.5	204.5	278.9	329.1	347.7
80°	122.7	159.9	225.0	260.3	275.2
82.5°	85.5	117.1	165.5	184.1	187.8
85°	53.9	74.4	100.4	111.6	109.7
87.5°	24.2	29.8	37.2	40.9	39.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)