

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: P277260

Luminaire Tested: **22CZ2-44HE-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277260
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-L82765-W2A1-U-4000K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4110.0 lumens
Efficiency: N/A
Efficacy: 117.5 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

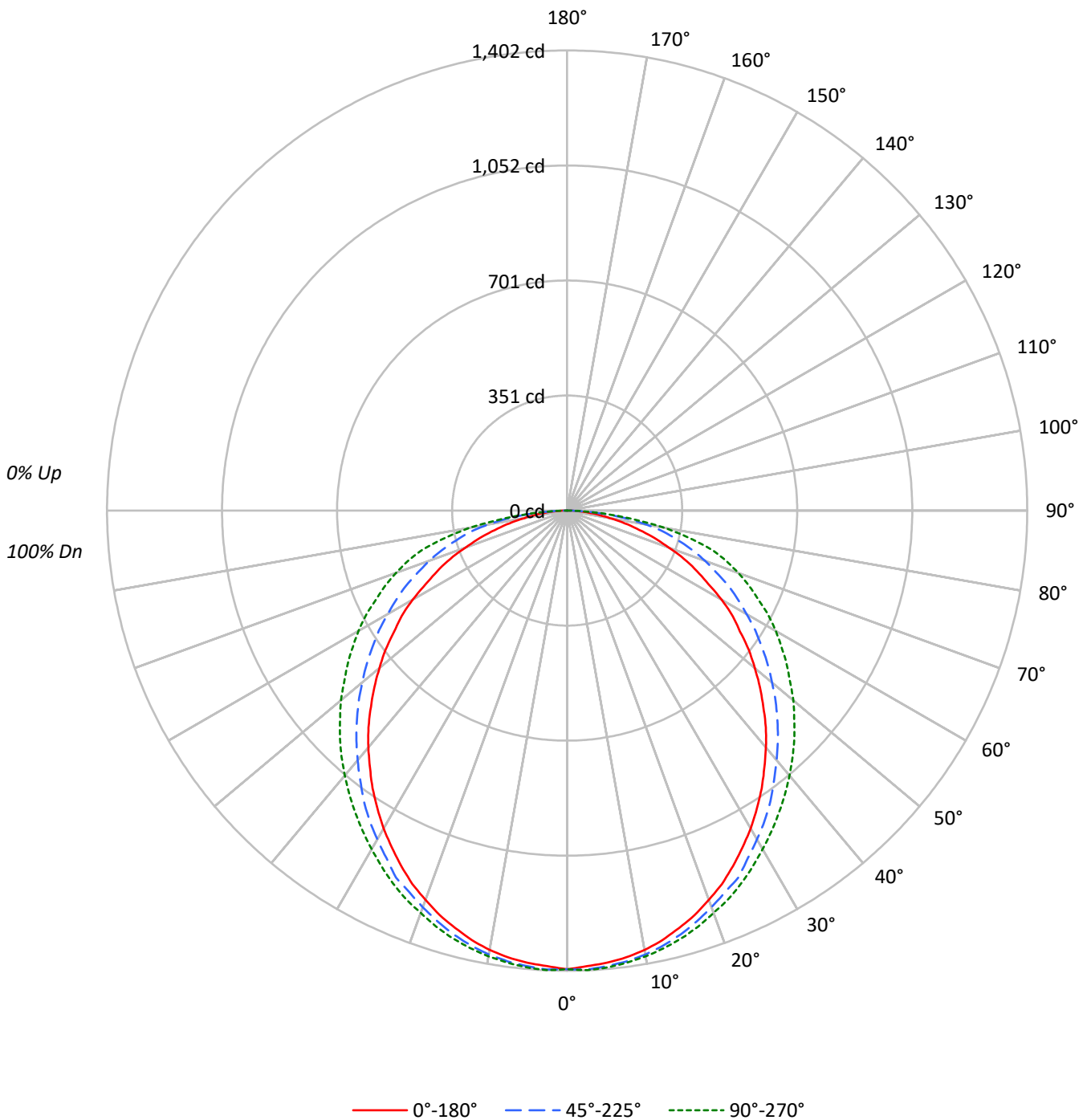
Input Watts (W): 34.968
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3761	3761	3761
5°	3737	3764	3775
10°	3714	3752	3769
15°	3668	3724	3758
20°	3614	3683	3735
25°	3549	3663	3723
30°	3475	3594	3701
35°	3395	3548	3694
40°	3310	3488	3701
45°	3217	3448	3725
50°	3124	3412	3768
55°	3017	3397	3833
60°	2928	3396	3951
65°	2781	3451	4095
70°	2594	3516	4360
75°	2376	3638	4710
80°	2069	3792	4638
85°	1809	3372	3683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	3.2
10°-20°	376.4	9.2
20°-30°	565.1	13.7
30°-40°	675.3	16.4
40°-50°	702.2	17.1
50°-60°	650.8	15.8
60°-70°	533.8	13.0
70°-80°	360.9	8.8
80°-90°	113.4	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°	1073.7	26.1
0°-40°	1749.0	42.6
0°-60°	3101.9	75.5
0°-90°	4110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1398	1398	1398	1398	1398	
5°	1383	1385	1393	1396	1398	131
15°	1317	1323	1337	1345	1349	371
25°	1195	1205	1234	1248	1254	550
35°	1033	1048	1080	1112	1124	646
45°	845	862	906	959	979	653
55°	643	663	724	789	817	578
65°	437	461	542	613	643	432
75°	228	267	350	421	453	242
85°	59	81	109	121	119	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1397.5	1397.5	1397.5	1397.5	1397.5
2.5°	1389.4	1393.4	1399.5	1401.5	1401.5
5°	1383.3	1385.3	1393.4	1395.5	1397.5
7.5°	1373.2	1377.3	1385.3	1387.4	1389.4
10°	1359.1	1363.1	1373.2	1377.3	1379.3
12.5°	1340.8	1344.9	1357.0	1363.1	1365.1
15°	1316.6	1322.6	1336.8	1344.9	1348.9
17.5°	1292.3	1298.4	1312.5	1324.7	1328.7
20°	1262.0	1276.1	1286.2	1302.4	1304.4
22.5°	1231.6	1239.7	1257.9	1274.1	1282.2
25°	1195.2	1205.3	1233.7	1247.8	1253.9
27.5°	1156.8	1171.0	1193.2	1215.5	1223.5
30°	1118.4	1128.5	1156.8	1183.1	1191.2
32.5°	1075.9	1090.1	1120.4	1146.7	1158.8
35°	1033.4	1047.6	1080.0	1112.3	1124.5
37.5°	986.9	1003.1	1035.5	1073.9	1090.1
40°	942.4	954.6	993.0	1039.5	1053.7
42.5°	895.9	910.1	950.5	1001.1	1017.3
45°	845.4	861.5	906.0	958.6	978.8
47.5°	796.8	813.0	861.5	914.1	938.4
50°	746.3	766.5	815.0	875.7	900.0
52.5°	697.7	715.9	770.5	833.2	855.5
55°	643.1	663.3	724.0	788.7	817.0
57.5°	598.6	612.8	679.5	746.3	774.6
60°	544.0	562.2	631.0	701.8	734.1
62.5°	485.4	515.7	586.5	659.3	691.7
65°	436.8	461.1	542.0	612.8	643.1
67.5°	386.3	412.6	491.4	566.3	600.7
70°	329.7	364.0	446.9	521.8	554.1
72.5°	279.1	315.5	400.4	473.2	507.6
75°	228.5	267.0	349.9	420.7	453.0
77.5°	180.0	222.5	303.4	358.0	378.2
80°	133.5	173.9	244.7	283.1	299.3
82.5°	93.0	127.4	180.0	200.2	204.3
85°	58.6	80.9	109.2	121.3	119.3
87.5°	26.3	32.4	40.4	44.5	42.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)