

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: P277425

Luminaire Tested: **22CZ2-44HE-S-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277425
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-S-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x2 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3985.0 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.26 / 1.34
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

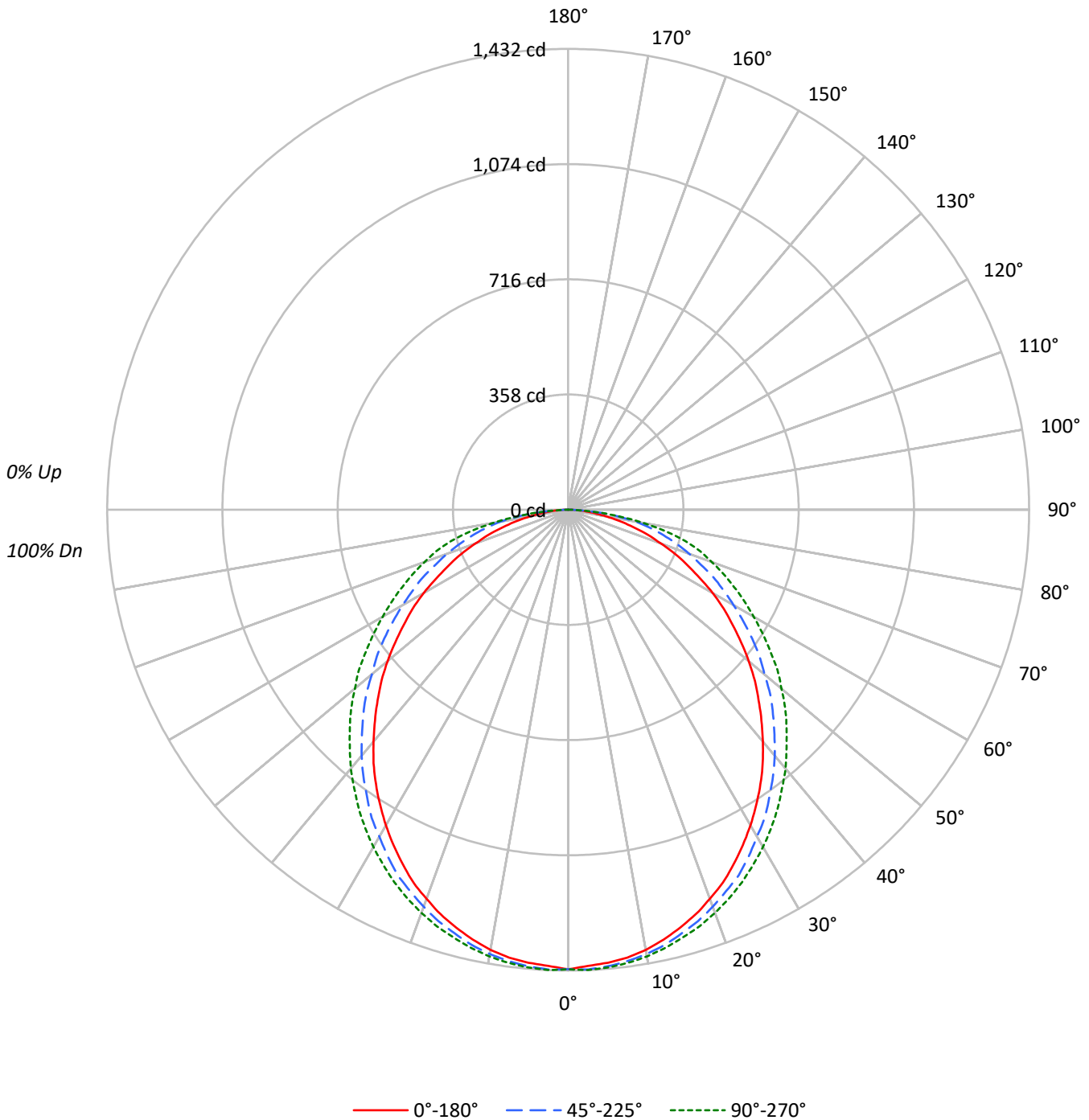
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	57	52	61	56	52	49
5	75	62	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	51	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3842	3842	3842
5°	3817	3847	3857
10°	3795	3831	3851
15°	3745	3797	3833
20°	3684	3759	3818
25°	3611	3721	3793
30°	3518	3645	3761
35°	3420	3579	3726
40°	3305	3507	3690
45°	3184	3425	3651
50°	3067	3332	3620
55°	2922	3271	3594
60°	2792	3192	3582
65°	2604	3173	3622
70°	2399	3146	3730
75°	2165	3190	3924
80°	1874	3285	3688
85°	1550	2754	2754



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.0	3.4
10°-20°	384.3	9.6
20°-30°	575.0	14.4
30°-40°	680.9	17.1
40°-50°	694.0	17.4
50°-60°	622.0	15.6
60°-70°	487.0	12.2
70°-80°	314.0	7.9
80°-90°	92.8	2.3
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°	1094.3	27.5
0°-40°	1775.3	44.5
0°-60°	3091.2	77.6
0°-90°	3985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1413	1417	1424	1426	1428	134
15°	1344	1352	1363	1374	1376	379
25°	1216	1227	1253	1270	1277	560
35°	1041	1054	1090	1123	1134	651
45°	837	855	900	946	959	646
55°	623	643	697	746	766	558
65°	409	433	498	547	569	406
75°	208	240	307	359	377	223
85°	50	69	89	89	89	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.9	1427.9	1427.9	1427.9	1427.9
2.5°	1418.7	1422.4	1429.8	1431.7	1431.7
5°	1413.1	1416.8	1424.2	1426.1	1427.9
7.5°	1403.8	1405.6	1414.9	1418.7	1420.5
10°	1388.9	1392.6	1401.9	1407.5	1409.4
12.5°	1368.5	1374.0	1385.2	1392.6	1394.5
15°	1344.3	1351.7	1362.9	1374.0	1375.9
17.5°	1318.3	1325.7	1340.6	1353.6	1357.3
20°	1286.6	1295.9	1312.7	1327.5	1333.1
22.5°	1255.0	1262.5	1282.9	1301.5	1307.1
25°	1216.0	1227.1	1253.2	1269.9	1277.3
27.5°	1175.1	1188.1	1214.1	1236.4	1243.9
30°	1132.3	1145.3	1173.2	1201.1	1210.4
32.5°	1087.7	1102.6	1136.0	1163.9	1173.2
35°	1041.2	1054.2	1089.6	1123.0	1134.2
37.5°	992.9	1004.0	1044.9	1080.3	1091.4
40°	940.8	955.7	998.4	1039.4	1050.5
42.5°	888.7	905.5	948.2	992.9	1004.0
45°	836.7	855.3	899.9	946.4	959.4
47.5°	786.5	801.4	851.6	896.2	914.8
50°	732.6	747.4	795.8	846.0	864.6
52.5°	676.8	697.2	749.3	797.6	820.0
55°	622.9	643.3	697.2	745.6	766.0
57.5°	572.7	589.4	645.2	695.4	715.8
60°	518.7	533.6	593.1	647.0	665.6
62.5°	461.1	483.4	544.8	595.0	617.3
65°	409.0	433.2	498.3	546.6	568.9
67.5°	360.7	383.0	446.2	498.3	522.5
70°	304.9	334.7	399.8	451.8	474.1
72.5°	260.3	286.3	353.3	405.3	429.5
75°	208.2	239.9	306.8	358.8	377.4
77.5°	165.5	197.1	260.3	301.2	310.5
80°	120.9	152.5	212.0	232.4	238.0
82.5°	81.8	111.6	152.5	158.0	159.9
85°	50.2	68.8	89.2	89.2	89.2
87.5°	24.2	27.9	31.6	29.7	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)