

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: P474800

Luminaire Tested: **22CZ2-44HE-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P474800
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-44HE-UNV-L835-CD1-U
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY,RIBBED LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4566.8 lumens
Efficiency: N/A
Efficacy: 139.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

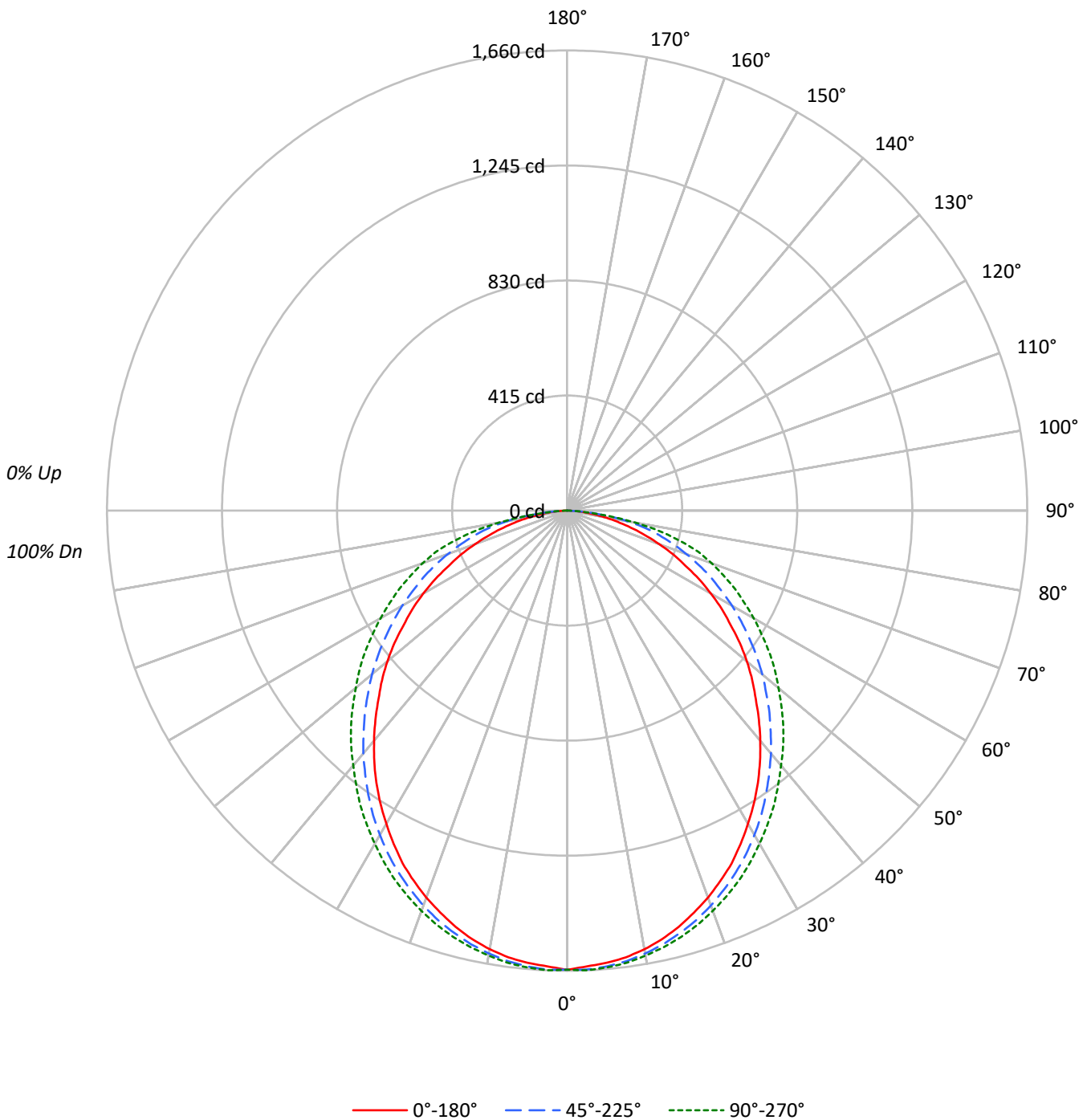
Input Watts (W): 32.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	77	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	78	70	64	75	68	63	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	73	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4457	4457	4457
5°	4424	4458	4468
10°	4391	4433	4454
15°	4332	4393	4434
20°	4253	4342	4400
25°	4170	4276	4364
30°	4055	4199	4313
35°	3941	4109	4271
40°	3807	4018	4217
45°	3662	3926	4198
50°	3543	3846	4166
55°	3378	3763	4175
60°	3225	3698	4187
65°	2999	3650	4253
70°	2772	3600	4359
75°	2479	3583	4386
80°	2080	3395	3829
85°	1609	2325	2177



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	3.4
10°-20°	444.2	9.7
20°-30°	662.3	14.5
30°-40°	781.8	17.1
40°-50°	796.8	17.4
50°-60°	718.6	15.7
60°-70°	564.8	12.4
70°-80°	353.6	7.7
80°-90°	88.2	1.9
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°	1262.9	27.7
0°-40°	2044.8	44.8
0°-60°	3560.2	78.0
0°-90°	4566.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4566.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1656	1656	1656	1656	1656	
5°	1638	1642	1650	1654	1654	155
15°	1555	1562	1577	1589	1592	438
25°	1404	1415	1440	1462	1470	646
35°	1200	1215	1251	1286	1300	750
45°	962	984	1032	1082	1103	744
55°	720	742	802	864	890	646
65°	471	500	573	637	668	470
75°	238	274	345	406	422	253
85°	52	67	75	75	70	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1656.2	1656.2	1656.2	1656.2	1656.2
2.5°	1645.5	1649.4	1657.1	1660.0	1660.0
5°	1637.8	1641.7	1650.4	1654.2	1654.2
7.5°	1625.3	1629.1	1639.8	1644.6	1645.5
10°	1606.9	1611.8	1622.4	1630.1	1630.1
12.5°	1583.8	1588.6	1602.1	1611.8	1612.7
15°	1554.8	1561.6	1577.0	1588.6	1591.5
17.5°	1521.0	1531.7	1549.0	1563.5	1566.4
20°	1485.3	1496.0	1516.2	1532.6	1536.5
22.5°	1445.8	1455.4	1479.5	1499.8	1504.6
25°	1404.3	1414.9	1440.0	1462.2	1469.9
27.5°	1355.0	1367.6	1397.5	1422.6	1430.3
30°	1304.9	1320.3	1351.2	1379.2	1387.9
32.5°	1253.7	1268.2	1302.9	1332.8	1344.4
35°	1199.7	1215.1	1250.8	1285.6	1300.0
37.5°	1142.7	1158.2	1196.8	1236.3	1249.8
40°	1083.8	1102.2	1143.7	1186.1	1200.6
42.5°	1024.0	1043.3	1086.7	1134.0	1153.3
45°	962.2	983.5	1031.7	1081.9	1103.1
47.5°	906.3	923.6	973.8	1028.8	1049.1
50°	846.4	862.8	918.8	973.8	995.1
52.5°	785.6	801.1	860.9	918.8	944.9
55°	720.0	742.2	802.0	863.8	889.9
57.5°	662.1	682.3	744.1	806.8	831.9
60°	599.3	620.6	687.2	750.9	777.9
62.5°	536.6	559.8	627.3	695.9	721.0
65°	471.0	499.9	573.3	637.0	667.9
67.5°	415.0	443.0	515.4	582.0	609.0
70°	352.3	385.1	457.5	525.0	554.0
72.5°	293.4	326.2	400.5	468.1	497.0
75°	238.4	274.1	344.6	406.3	421.8
77.5°	185.3	219.1	289.5	325.2	341.7
80°	134.2	167.0	219.1	243.2	247.1
82.5°	90.7	118.7	148.6	155.4	151.5
85°	52.1	66.6	75.3	75.3	70.5
87.5°	21.2	21.2	18.3	11.6	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)