

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: P272004

Luminaire Tested: **22CZ2-44HE-UNV-L950-CD1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P272004
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-L950-CD1-U
Description: 2'X2' TROFFER LED MODULE,RIBBED LENS, 90CRI
Light Source: (196) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4048.0 lumens
Efficiency: N/A
Efficacy: 115.7 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

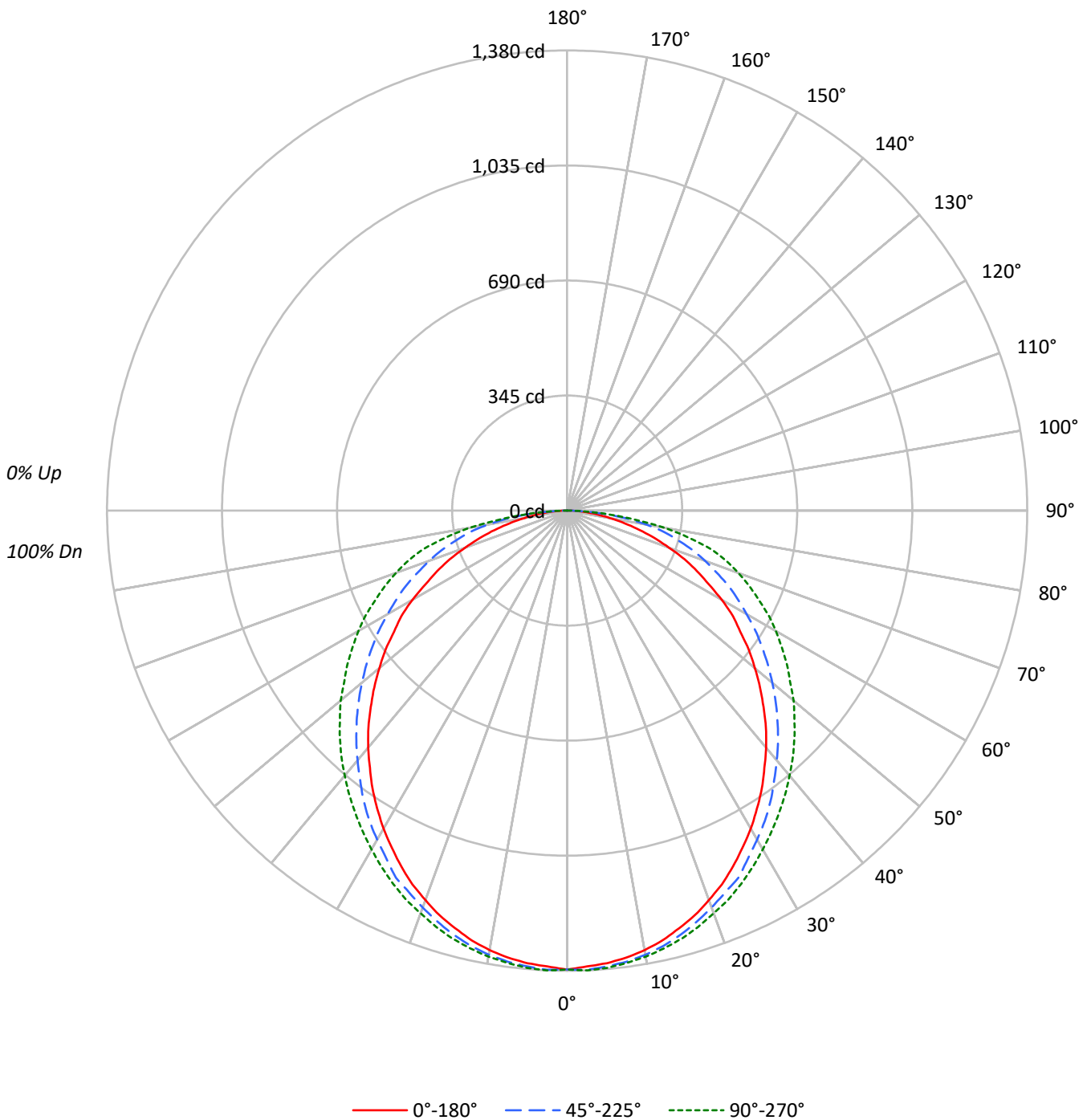
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	86	84
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	63	86	76	68	62	73	66	61	70	65	60	68	63	59
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	44
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30
9	56	42	34	28	54	41	33	28	40	33	28	39	32	27	38	32	27
10	52	39	31	25	51	38	30	25	37	30	25	36	30	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3704	3704	3704
5°	3680	3707	3718
10°	3657	3696	3712
15°	3612	3668	3701
20°	3559	3628	3679
25°	3495	3608	3667
30°	3423	3540	3645
35°	3344	3494	3638
40°	3261	3436	3646
45°	3169	3396	3669
50°	3077	3360	3711
55°	2972	3346	3775
60°	2884	3345	3892
65°	2739	3399	4033
70°	2555	3463	4294
75°	2340	3583	4639
80°	2038	3735	4568
85°	1785	3322	3628



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	3.2
10°-20°	370.8	9.2
20°-30°	556.6	13.7
30°-40°	665.1	16.4
40°-50°	691.6	17.1
50°-60°	641.0	15.8
60°-70°	525.8	13.0
70°-80°	355.4	8.8
80°-90°	111.7	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°	1057.5	26.1
0°-40°	1722.6	42.6
0°-60°	3055.1	75.5
0°-90°	4048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1376	1376	1376	1376	1376	
5°	1362	1364	1372	1374	1376	129
15°	1297	1303	1317	1325	1329	366
25°	1177	1187	1215	1229	1235	542
35°	1018	1032	1064	1096	1108	636
45°	833	848	892	944	964	643
55°	633	653	713	777	805	569
65°	430	454	534	604	633	425
75°	225	263	345	414	446	239
85°	58	80	108	120	118	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1376.4	1376.4	1376.4	1376.4	1376.4
2.5°	1368.4	1372.4	1378.4	1380.4	1380.4
5°	1362.5	1364.4	1372.4	1374.4	1376.4
7.5°	1352.5	1356.5	1364.4	1366.4	1368.4
10°	1338.5	1342.5	1352.5	1356.5	1358.5
12.5°	1320.6	1324.6	1336.6	1342.5	1344.5
15°	1296.7	1302.7	1316.6	1324.6	1328.6
17.5°	1272.8	1278.8	1292.7	1304.7	1308.7
20°	1242.9	1256.9	1266.8	1282.8	1284.8
22.5°	1213.1	1221.0	1239.0	1254.9	1262.9
25°	1177.2	1187.2	1215.1	1229.0	1235.0
27.5°	1139.4	1153.3	1175.2	1197.1	1205.1
30°	1101.5	1111.5	1139.4	1165.3	1173.2
32.5°	1059.7	1073.6	1103.5	1129.4	1141.4
35°	1017.9	1031.8	1063.7	1095.5	1107.5
37.5°	972.0	988.0	1019.8	1057.7	1073.6
40°	928.2	940.2	978.0	1023.8	1037.8
42.5°	882.4	896.3	936.2	986.0	1001.9
45°	832.6	848.5	892.4	944.2	964.1
47.5°	784.8	800.7	848.5	900.3	924.2
50°	735.0	754.9	802.7	862.5	886.4
52.5°	687.2	705.1	758.9	820.7	842.6
55°	633.4	653.3	713.1	776.8	804.7
57.5°	589.6	603.5	669.3	735.0	762.9
60°	535.8	553.7	621.5	691.2	723.1
62.5°	478.1	507.9	577.6	649.4	681.2
65°	430.2	454.2	533.8	603.5	633.4
67.5°	380.5	406.3	484.0	557.7	591.6
70°	324.7	358.5	440.2	513.9	545.8
72.5°	274.9	310.7	394.4	466.1	500.0
75°	225.1	262.9	344.6	414.3	446.2
77.5°	177.3	219.1	298.8	352.6	372.5
80°	131.5	171.3	241.0	278.9	294.8
82.5°	91.6	125.5	177.3	197.2	201.2
85°	57.8	79.7	107.6	119.5	117.5
87.5°	25.9	31.9	39.8	43.8	41.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)