

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: P272048

Luminaire Tested: **22CZ2-44HE-S-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: P272048
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-L950-CD1-U
Description: 2'X2' TROFFER LED MODULE,SMOOTH 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: 4269.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

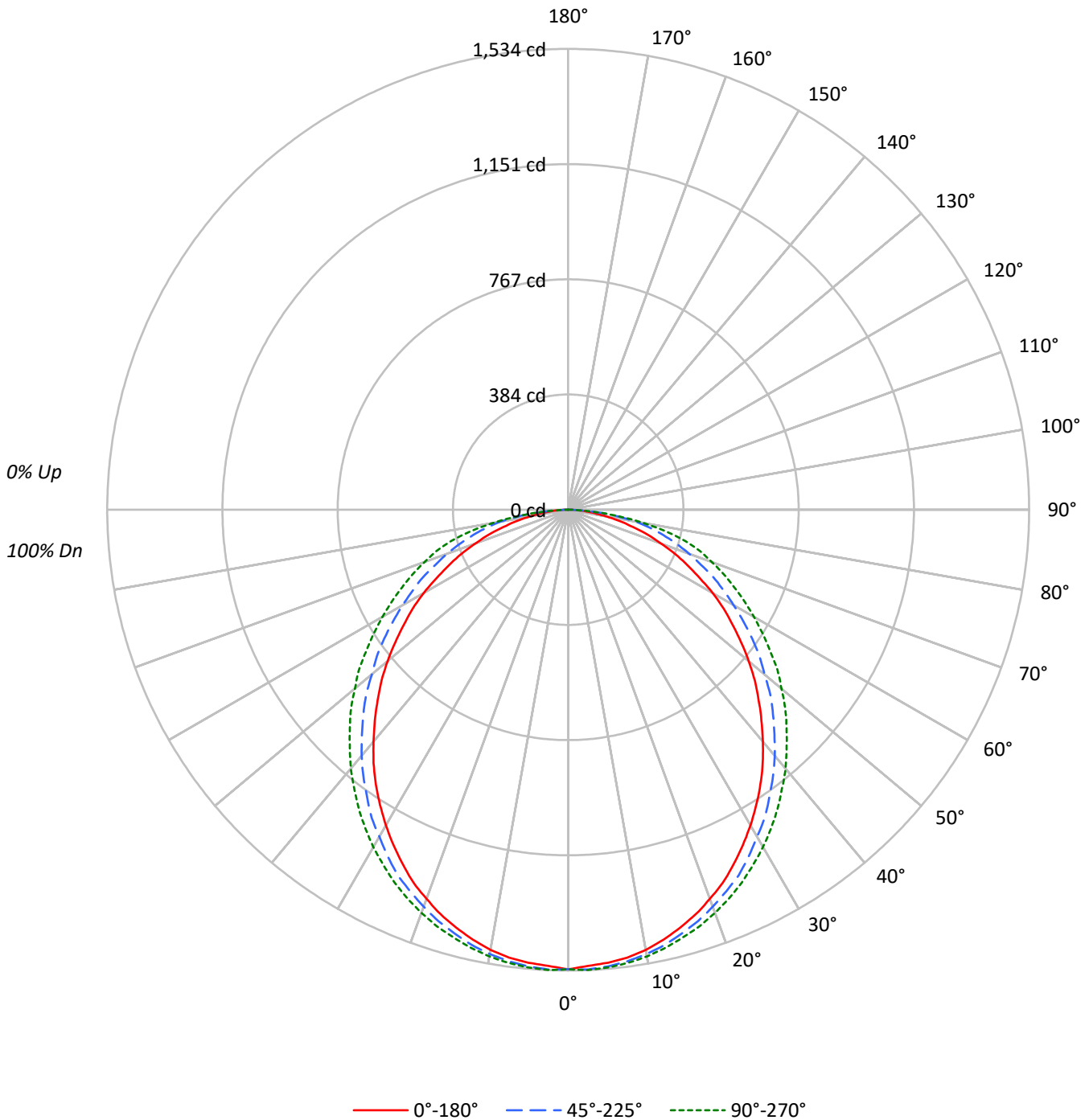
Input Watts (W): 35
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4116	4116	4116
5°	4089	4121	4132
10°	4066	4104	4126
15°	4012	4067	4106
20°	3947	4027	4090
25°	3868	3986	4063
30°	3769	3905	4029
35°	3664	3834	3991
40°	3541	3757	3953
45°	3411	3669	3911
50°	3286	3569	3877
55°	3131	3504	3850
60°	2991	3420	3838
65°	2790	3399	3881
70°	2570	3369	3996
75°	2320	3417	4204
80°	2007	3519	3952
85°	1661	2952	2952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.7	3.4
10°-20°	411.7	9.6
20°-30°	616.0	14.4
30°-40°	729.5	17.1
40°-50°	743.4	17.4
50°-60°	666.3	15.6
60°-70°	521.7	12.2
70°-80°	336.4	7.9
80°-90°	99.4	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°	1172.3	27.5
0°-40°	1901.8	44.5
0°-60°	3311.6	77.6
0°-90°	4269.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4269.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1514	1518	1526	1528	1530	144
15°	1440	1448	1460	1472	1474	406
25°	1303	1315	1342	1360	1368	600
35°	1115	1129	1167	1203	1215	697
45°	896	916	964	1014	1028	692
55°	667	689	747	799	821	598
65°	438	464	534	586	610	435
75°	223	257	329	384	404	239
85°	54	74	96	96	96	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1529.7	1529.7	1529.7	1529.7	1529.7
2.5°	1519.8	1523.7	1531.7	1533.7	1533.7
5°	1513.8	1517.8	1525.7	1527.7	1529.7
7.5°	1503.8	1505.8	1515.8	1519.8	1521.7
10°	1487.9	1491.9	1501.8	1507.8	1509.8
12.5°	1466.0	1472.0	1483.9	1491.9	1493.9
15°	1440.1	1448.1	1460.0	1472.0	1473.9
17.5°	1412.2	1420.2	1436.1	1450.0	1454.0
20°	1378.3	1388.3	1406.2	1422.2	1428.1
22.5°	1344.5	1352.4	1374.4	1394.3	1400.2
25°	1302.6	1314.6	1342.5	1360.4	1368.4
27.5°	1258.8	1272.8	1300.7	1324.6	1332.5
30°	1213.0	1227.0	1256.8	1286.7	1296.7
32.5°	1165.2	1181.1	1217.0	1246.9	1256.8
35°	1115.4	1129.4	1167.2	1203.1	1215.0
37.5°	1063.6	1075.6	1119.4	1157.2	1169.2
40°	1007.9	1023.8	1069.6	1113.4	1125.4
42.5°	952.1	970.0	1015.8	1063.6	1075.6
45°	896.3	916.2	964.0	1013.8	1027.8
47.5°	842.5	858.5	912.3	960.1	980.0
50°	784.8	800.7	852.5	906.3	926.2
52.5°	725.0	746.9	802.7	854.5	878.4
55°	667.3	689.2	746.9	798.7	820.6
57.5°	613.5	631.4	691.2	744.9	766.8
60°	555.7	571.7	635.4	693.2	713.1
62.5°	494.0	517.9	583.6	637.4	661.3
65°	438.2	464.1	533.8	585.6	609.5
67.5°	386.4	410.3	478.0	533.8	559.7
70°	326.7	358.5	428.2	484.0	507.9
72.5°	278.9	306.7	378.4	434.2	460.1
75°	223.1	256.9	328.6	384.4	404.3
77.5°	177.3	211.1	278.9	322.7	332.6
80°	129.5	163.3	227.1	249.0	255.0
82.5°	87.6	119.5	163.3	169.3	171.3
85°	53.8	73.7	95.6	95.6	95.6
87.5°	25.9	29.9	33.9	31.9	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)