

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: P390199

Luminaire Tested: **22CZ2-24VHE-RDP-UNV-L950-CD1-SWPD1-U**

Issue Date: 2/28/2020

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: P390199
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-24)
Test Lab: INNOVATIONS CENTER(G3)
Issue Date: 2/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ2-24VHE-RDP-UNV-L950-CD1-SWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND RDP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1506.2 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

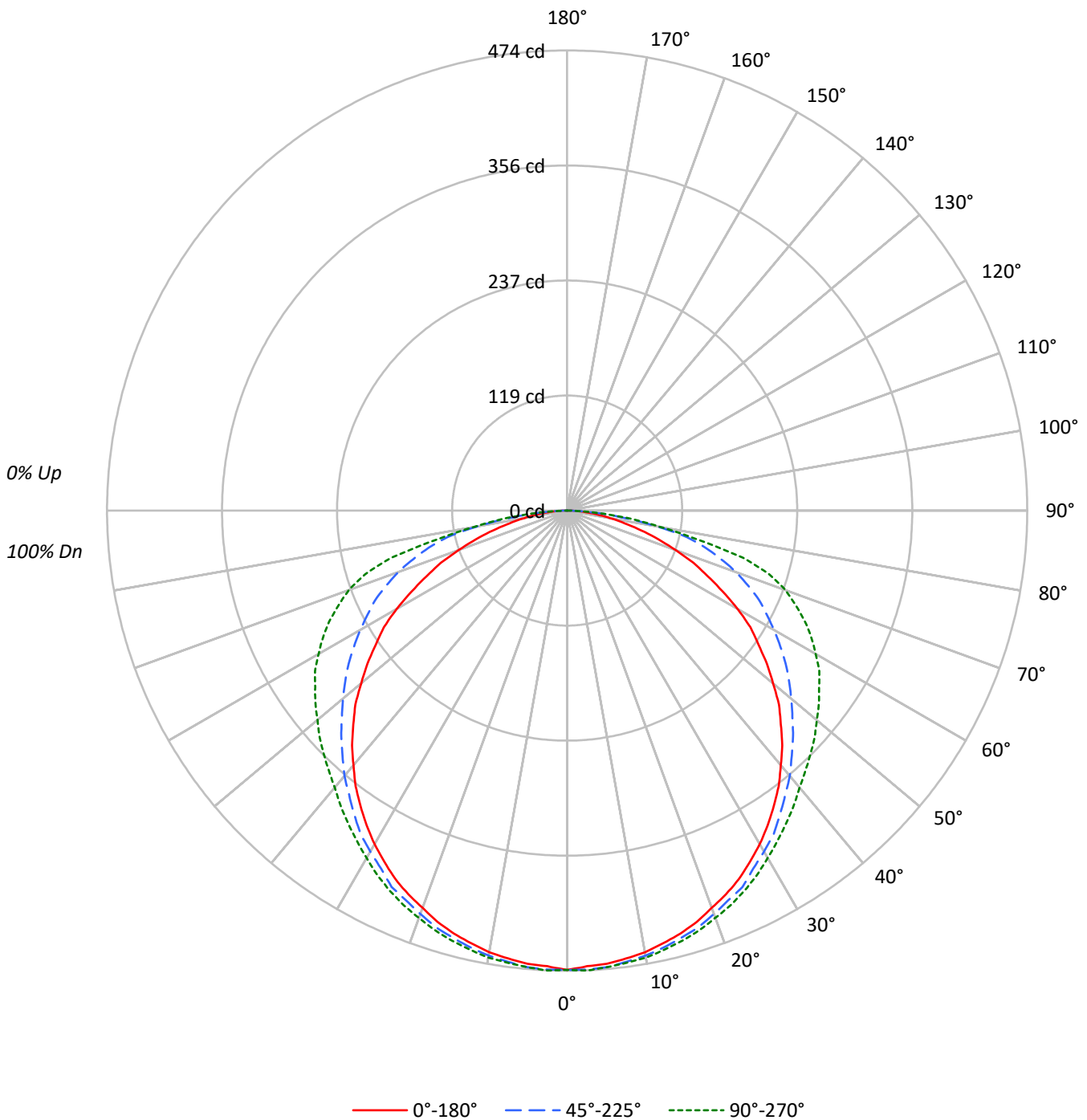
Input Watts (W): 17.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	92	89	92	89	86	88	86	84	82
2	97	88	81	75	95	86	80	74	83	77	72	80	75	71	76	72	69	67
3	88	77	68	61	86	75	67	61	72	65	60	70	64	59	67	62	58	55
4	80	68	59	51	78	66	58	51	64	56	50	61	55	50	59	54	49	47
5	74	60	51	44	72	59	50	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	44	38	51	43	38	50	43	37	48	42	37	35
7	63	49	40	33	61	48	39	33	47	39	33	45	38	33	44	37	33	31
8	59	45	36	30	57	44	35	30	43	35	29	41	34	29	40	34	29	27
9	55	41	32	27	53	40	32	27	39	32	26	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1273	1273	1273
5°	1266	1275	1275
10°	1262	1272	1278
15°	1256	1269	1278
20°	1247	1266	1279
25°	1243	1270	1283
30°	1233	1260	1284
35°	1219	1256	1292
40°	1203	1253	1308
45°	1185	1252	1349
50°	1160	1262	1405
55°	1128	1289	1487
60°	1091	1324	1592
65°	1016	1390	1722
70°	933	1456	1883
75°	818	1533	1947
80°	704	1460	1528
85°	614	1059	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.8	3.0
10°-20°	128.5	8.5
20°-30°	196.0	13.0
30°-40°	239.4	15.9
40°-50°	256.0	17.0
50°-60°	247.1	16.4
60°-70°	212.7	14.1
70°-80°	143.9	9.6
80°-90°	38.0	2.5
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°	369.3	24.5
0°-40°	608.7	40.4
0°-60°	1111.7	73.8
0°-90°	1506.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1506.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	473	473	473	473	473	
5°	469	470	472	472	472	45
15°	451	452	455	458	459	127
25°	419	421	428	430	432	193
35°	371	374	382	390	393	232
45°	311	317	329	346	355	240
55°	240	248	275	302	317	215
65°	160	175	218	253	270	159
75°	79	104	147	177	187	84
85°	20	28	34	36	38	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	473.1	473.1	473.1	473.1	473.1
2.5°	469.8	470.9	473.1	473.1	474.2
5°	468.7	469.8	472.0	472.0	472.0
7.5°	465.4	466.5	468.7	469.8	469.8
10°	462.0	463.2	465.4	466.5	467.6
12.5°	456.5	457.6	460.9	463.2	463.2
15°	451.0	452.1	455.4	457.6	458.7
17.5°	444.3	446.5	449.9	452.1	453.2
20°	435.5	437.7	442.1	445.4	446.5
22.5°	427.7	429.9	434.3	437.7	439.9
25°	418.8	421.0	427.7	429.9	432.1
27.5°	407.8	410.0	415.5	419.9	423.3
30°	396.7	398.9	405.5	411.1	413.3
32.5°	384.5	387.8	395.6	400.0	403.3
35°	371.2	374.5	382.3	390.0	393.3
37.5°	357.9	361.2	369.0	378.9	383.4
40°	342.4	346.8	356.8	370.1	372.3
42.5°	328.0	333.5	342.4	357.9	363.4
45°	311.4	316.9	329.1	345.7	354.6
47.5°	295.8	301.4	314.7	334.6	345.7
50°	277.0	284.8	301.4	324.6	335.7
52.5°	259.3	265.9	288.1	313.6	326.9
55°	240.4	248.2	274.8	302.5	316.9
57.5°	223.8	230.5	260.4	291.4	308.0
60°	202.8	211.6	246.0	279.2	295.8
62.5°	180.6	193.9	231.6	265.9	283.7
65°	159.6	175.1	218.3	252.6	270.4
67.5°	140.7	157.3	201.7	238.2	254.8
70°	118.6	139.6	185.0	220.5	239.3
72.5°	98.6	121.9	166.2	201.7	218.3
75°	78.7	104.2	147.4	177.3	187.3
77.5°	60.9	85.3	126.3	135.2	136.3
80°	45.4	67.6	94.2	95.3	98.6
82.5°	31.0	47.6	60.9	66.5	67.6
85°	19.9	27.7	34.3	35.5	37.7
87.5°	8.9	10.0	12.2	11.1	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)