

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: P390198

Luminaire Tested: **22CZ2-24VHE-RDP-UNV-L950-CD1-SDWPD1-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: P390198
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-SDWPD1-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: 1488.1 lumens
Efficiency: N/A
Efficacy: 85.0 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

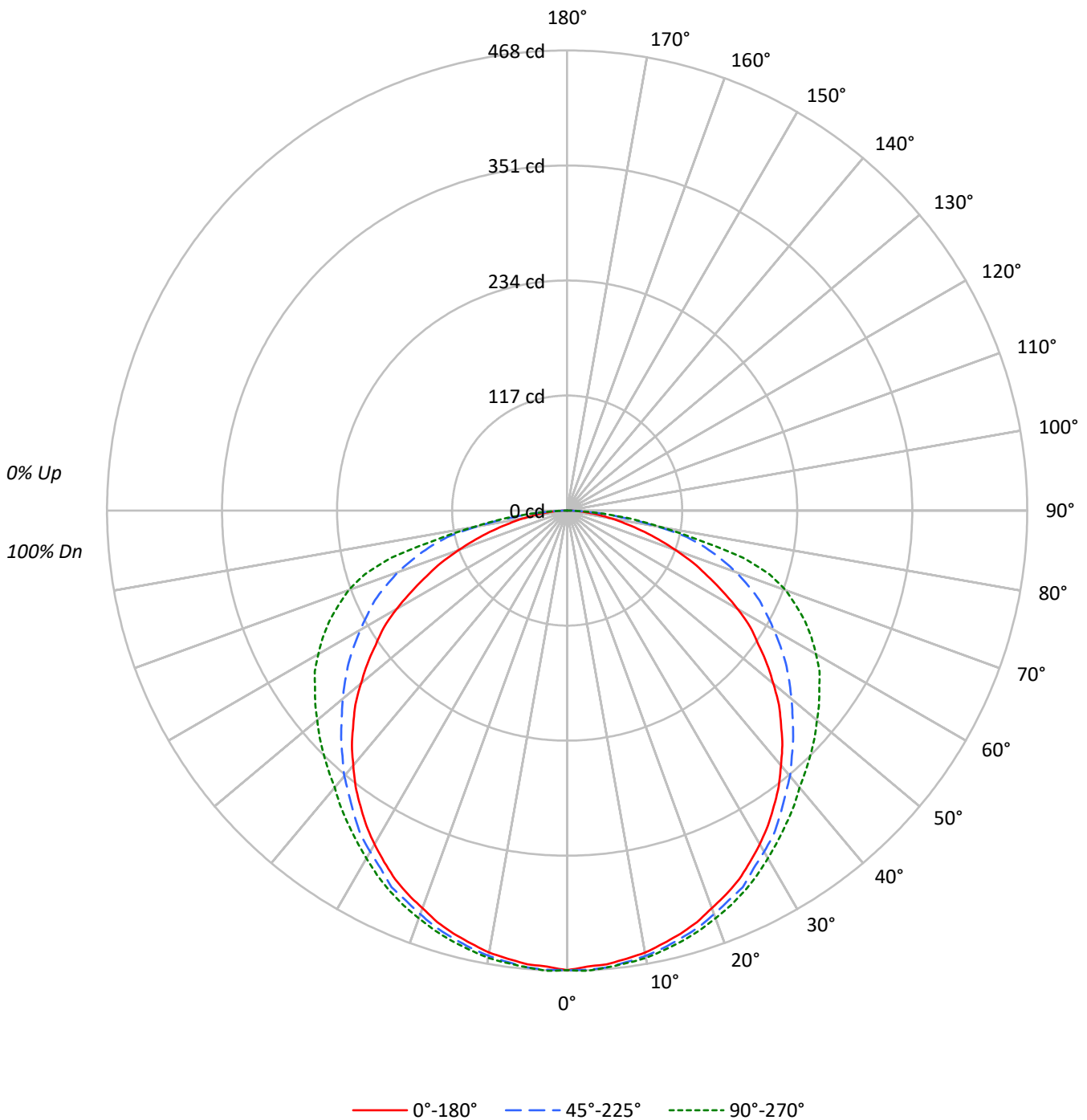
Input Watts (W): 17.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1258	1258	1258
5°	1251	1260	1260
10°	1247	1256	1262
15°	1241	1253	1263
20°	1232	1251	1263
25°	1229	1255	1268
30°	1218	1245	1269
35°	1205	1241	1277
40°	1188	1238	1292
45°	1171	1237	1333
50°	1146	1247	1389
55°	1115	1274	1469
60°	1078	1308	1573
65°	1004	1373	1701
70°	921	1438	1861
75°	808	1514	1923
80°	696	1441	1509
85°	608	1047	1149



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	3.0
10°-20°	127.0	8.5
20°-30°	193.7	13.0
30°-40°	236.5	15.9
40°-50°	252.9	17.0
50°-60°	244.1	16.4
60°-70°	210.1	14.1
70°-80°	142.2	9.6
80°-90°	37.5	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°	364.9	24.5
0°-40°	601.4	40.4
0°-60°	1098.3	73.8
0°-90°	1488.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1488.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	467	467	467	467	467	
5°	463	464	466	466	466	44
15°	446	447	450	452	453	126
25°	414	416	423	425	427	190
35°	367	370	378	385	389	229
45°	308	313	325	342	350	237
55°	238	245	272	299	313	213
65°	158	173	216	250	267	157
75°	78	103	146	175	185	83
85°	20	27	34	35	37	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	467.4	467.4	467.4	467.4	467.4
2.5°	464.2	465.2	467.4	467.4	468.5
5°	463.1	464.2	466.3	466.3	466.3
7.5°	459.8	460.9	463.1	464.2	464.2
10°	456.5	457.6	459.8	460.9	462.0
12.5°	451.0	452.1	455.4	457.6	457.6
15°	445.5	446.6	449.9	452.1	453.2
17.5°	439.0	441.2	444.4	446.6	447.7
20°	430.2	432.4	436.8	440.1	441.2
22.5°	422.6	424.7	429.1	432.4	434.6
25°	413.8	416.0	422.6	424.7	426.9
27.5°	402.9	405.0	410.5	414.9	418.2
30°	391.9	394.1	400.7	406.1	408.3
32.5°	379.9	383.1	390.8	395.2	398.5
35°	366.7	370.0	377.7	385.3	388.6
37.5°	353.6	356.9	364.5	374.4	378.8
40°	338.3	342.6	352.5	365.6	367.8
42.5°	324.0	329.5	338.3	353.6	359.1
45°	307.6	313.1	325.1	341.5	350.3
47.5°	292.3	297.8	310.9	330.6	341.5
50°	273.7	281.3	297.8	320.7	331.7
52.5°	256.2	262.7	284.6	309.8	322.9
55°	237.6	245.2	271.5	298.9	313.1
57.5°	221.1	227.7	257.3	287.9	304.3
60°	200.3	209.1	243.0	275.9	292.3
62.5°	178.4	191.6	228.8	262.7	280.2
65°	157.6	173.0	215.7	249.6	267.1
67.5°	139.0	155.4	199.2	235.4	251.8
70°	117.1	137.9	182.8	217.8	236.5
72.5°	97.4	120.4	164.2	199.2	215.7
75°	77.7	102.9	145.6	175.2	185.0
77.5°	60.2	84.3	124.8	133.6	134.6
80°	44.9	66.8	93.0	94.1	97.4
82.5°	30.7	47.1	60.2	65.7	66.8
85°	19.7	27.4	33.9	35.0	37.2
87.5°	8.8	9.9	12.0	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)