

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: P390462

Luminaire Tested: **22CZ2-55VHE-HRP-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: P390462
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: 22CZ2-55VHE-HRP-UNV-L950-CD1-SDWPD1-U
Description: 2x2 CRUZE LED TROFFER WITH 5000K, 90 LEDS, AND HRP LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4152.6 lumens
Efficiency: N/A
Efficacy: 105.4 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

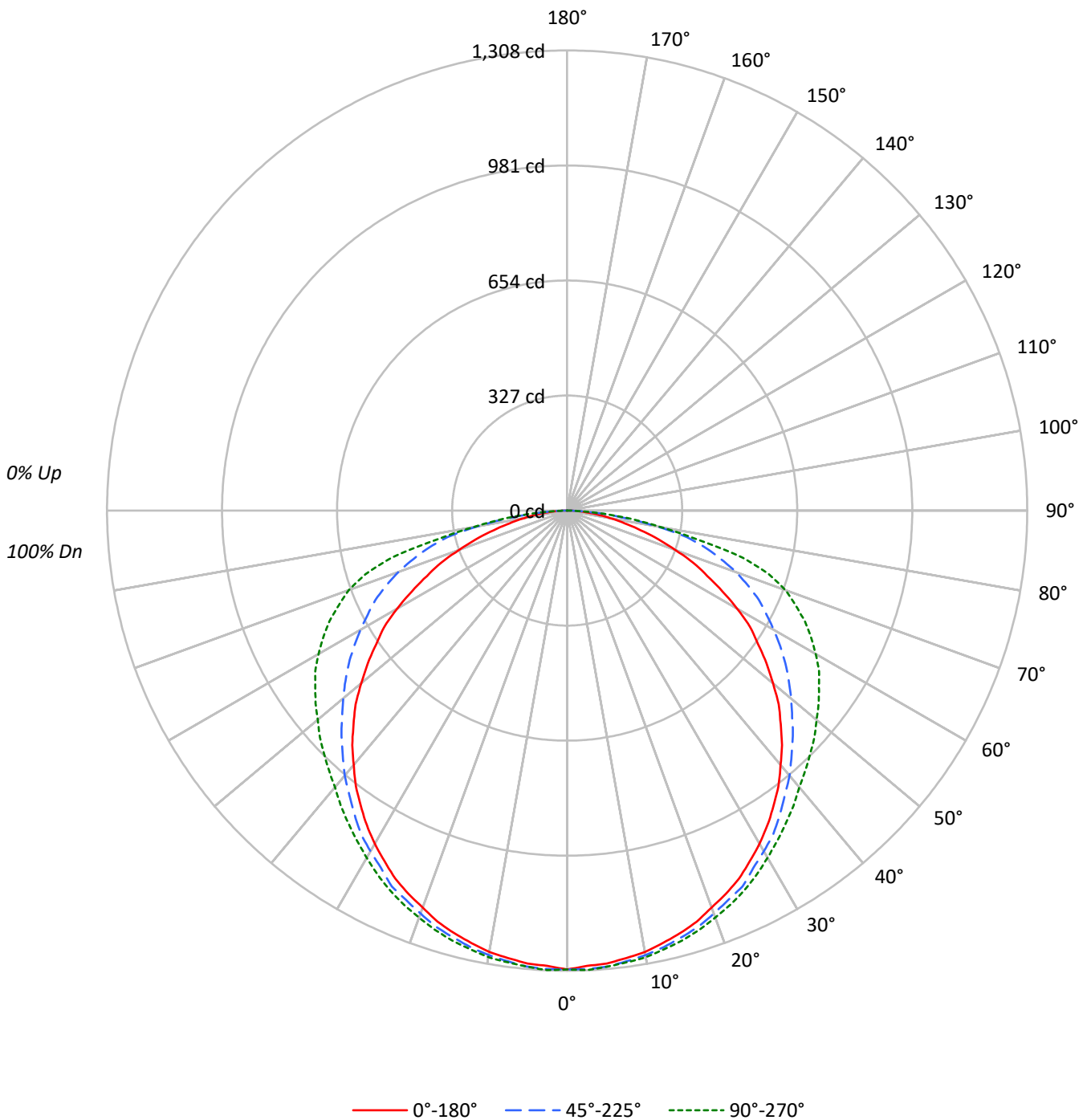
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3510	3510	3510
5°	3491	3515	3515
10°	3481	3506	3522
15°	3464	3498	3523
20°	3438	3491	3525
25°	3428	3501	3537
30°	3398	3474	3540
35°	3362	3462	3563
40°	3316	3455	3606
45°	3267	3453	3720
50°	3197	3478	3875
55°	3110	3554	4099
60°	3009	3650	4390
65°	2801	3832	4746
70°	2572	4014	5191
75°	2255	4224	5368
80°	1940	4025	4214
85°	1698	2924	3208



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.4	3.0
10°-20°	354.3	8.5
20°-30°	540.5	13.0
30°-40°	660.0	15.9
40°-50°	705.7	17.0
50°-60°	681.1	16.4
60°-70°	586.3	14.1
70°-80°	396.7	9.6
80°-90°	104.7	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°	1018.2	24.5
0°-40°	1678.1	40.4
0°-60°	3064.9	73.8
0°-90°	4152.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4152.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1304	1304	1304	1304	1304	
5°	1292	1295	1301	1301	1301	123
15°	1243	1246	1256	1262	1265	351
25°	1155	1161	1179	1185	1191	531
35°	1023	1032	1054	1075	1084	640
45°	858	874	907	953	978	663
55°	663	684	758	834	874	594
65°	440	483	602	696	745	437
75°	217	287	406	489	516	233
85°	55	76	95	98	104	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.4	1304.4	1304.4	1304.4	1304.4
2.5°	1295.2	1298.3	1304.4	1304.4	1307.5
5°	1292.2	1295.2	1301.3	1301.3	1301.3
7.5°	1283.0	1286.1	1292.2	1295.2	1295.2
10°	1273.9	1276.9	1283.0	1286.1	1289.1
12.5°	1258.6	1261.6	1270.8	1276.9	1276.9
15°	1243.3	1246.4	1255.5	1261.6	1264.7
17.5°	1225.0	1231.1	1240.3	1246.4	1249.4
20°	1200.5	1206.7	1218.9	1228.0	1231.1
22.5°	1179.2	1185.3	1197.5	1206.7	1212.8
25°	1154.7	1160.8	1179.2	1185.3	1191.4
27.5°	1124.2	1130.3	1145.6	1157.8	1166.9
30°	1093.6	1099.7	1118.1	1133.3	1139.4
32.5°	1060.0	1069.2	1090.6	1102.8	1112.0
35°	1023.4	1032.5	1053.9	1075.3	1084.5
37.5°	986.7	995.9	1017.3	1044.7	1057.0
40°	943.9	956.2	983.6	1020.3	1026.4
42.5°	904.2	919.5	943.9	986.7	1002.0
45°	858.4	873.7	907.3	953.1	977.5
47.5°	815.6	830.9	867.6	922.6	953.1
50°	763.7	785.1	830.9	895.1	925.6
52.5°	714.8	733.2	794.3	864.5	901.2
55°	662.9	684.3	757.6	834.0	873.7
57.5°	617.1	635.4	717.9	803.4	849.2
60°	559.0	583.5	678.2	769.8	815.6
62.5°	497.9	534.6	638.5	733.2	782.0
65°	439.9	482.7	601.8	696.5	745.4
67.5°	388.0	433.8	556.0	656.8	702.6
70°	326.9	384.9	510.2	607.9	659.8
72.5°	271.9	336.0	458.2	556.0	601.8
75°	216.9	287.2	406.3	488.8	516.3
77.5°	168.0	235.2	348.2	372.7	375.7
80°	125.2	186.3	259.7	262.7	271.9
82.5°	85.5	131.4	168.0	183.3	186.3
85°	55.0	76.4	94.7	97.8	103.9
87.5°	24.4	27.5	33.6	30.5	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)